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ATLAS OF THE WORLD

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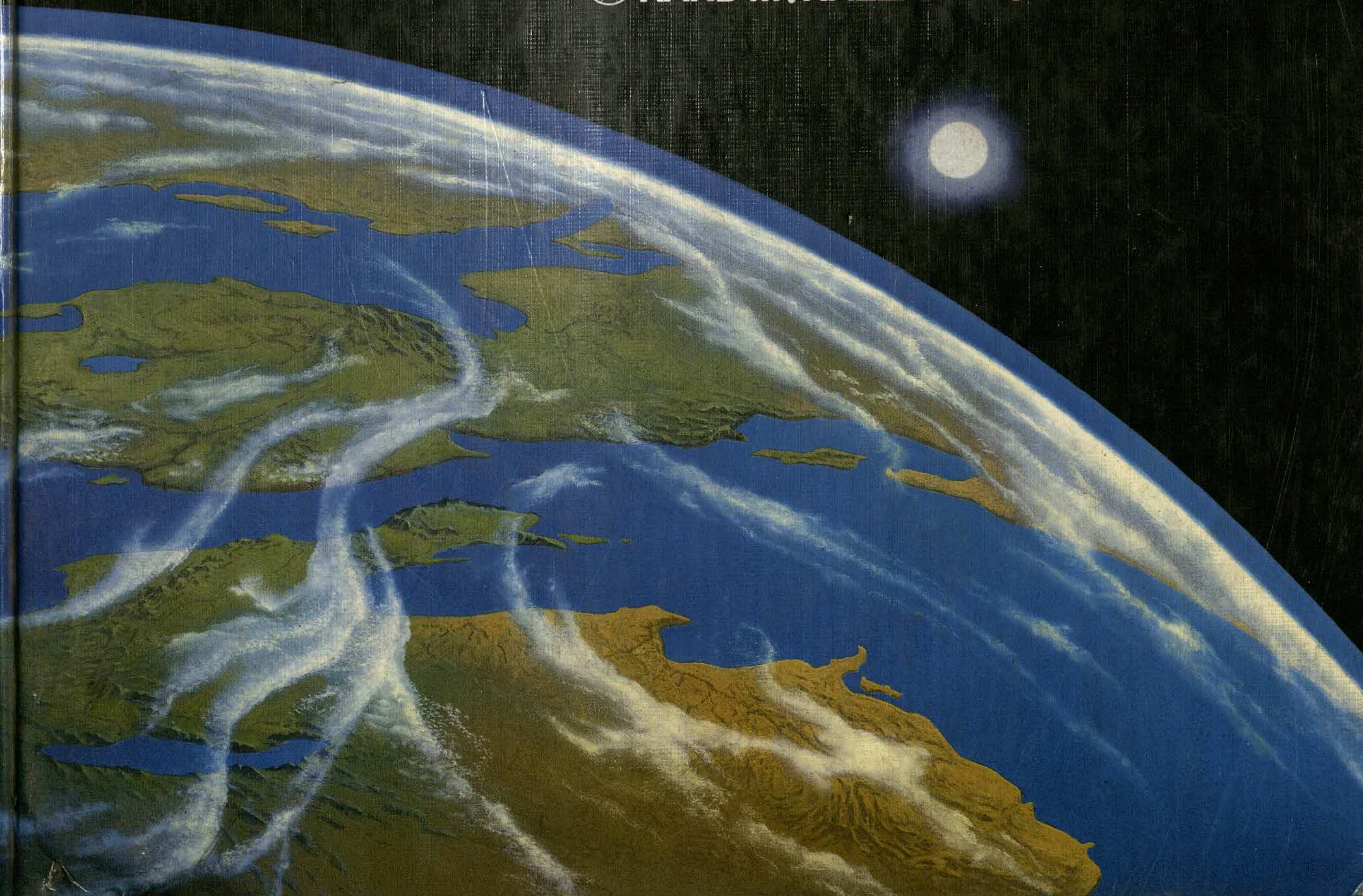

READER'S DIGEST

ATLAS OF THE WORLD

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ATLAS OF THE WORLD

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INTRODUCTION

Next to a dictionary, perhaps, an atlas is the most useful and most often consulted reference book in a home library. Every member of the family will turn to its pages—to locate unfamiliar place-names suddenly in the news, to help with homework assignments, to plan vacations, or to daydream over armchair travel to faraway and exotic climes.

And for all these reasons, the maps that form the core of an atlas must be comprehensive, up-to-date, and legible. To ensure that the maps in *Reader's Digest Atlas of the World* met all these requirements, we went to America's foremost mapmakers, Rand McNally & Company, and asked them to produce the stunning series that appears in "The World in Maps," pages 64–192. The bold topography—exclusive to this atlas—uses a combination of elevation tints and hill shading to achieve a three-dimensional effect without sacrificing detail or legibility.

An introduction to mapmaking and a complete list of maps appears on pages 64–65, followed by the legend that explains how to use the maps and the locator that shows the areas covered. The maps themselves begin on page 68. Following the world reference maps are four pages of charts and statistics and an index to more than 40,000 place-names.

An atlas, however, should be much more than a book of maps. Preceding the maps in this volume is "A World of Wonders," 60 pages of breathtaking art, photographs, and informative text especially created for *Reader's Digest Atlas of the World*. Each of its full-spread features explains and examines in depth a separate story in the unimaginably long journey from the origin of the universe some 15 billion years ago to the choices for managing the planet mankind faces as we approach the 21st century of the present era. The contents listed opposite summarize the wealth of provocative, stimulating information offered in this section.

Together, these beautiful, accessible maps and the cornucopia of encyclopedic information contained in the introductory thematic section guarantee that this volume will be among the most handsome and treasured volumes in your library.

—The Editors

Global vegetation changes between May and August show up in this composite of satellite images.

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Universe: From the Big Bang to an Uncertain Future

Space is swelling around us. Many billions of cubic miles of new space appear between the galaxies every day, sweeping our galaxy apart from its neighbors and creating the cold void we see as the blackness of the night sky. Until this century it was thought that the universe was eternal and unchanging; but astronomers now know that the universe has a life history.

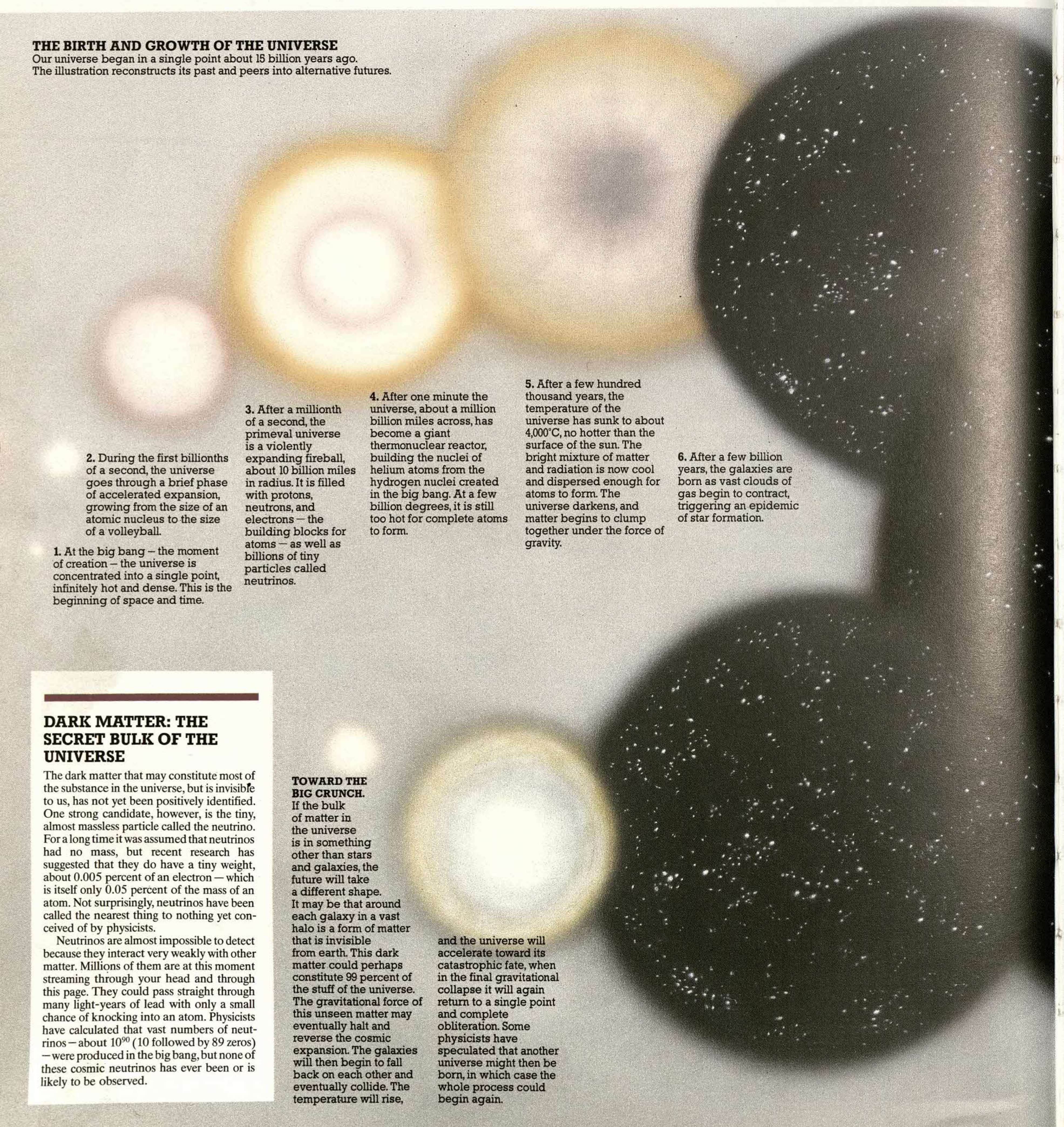
When the American astronomer Edwin Hubble examined many distant galaxies in the 1920's, he discovered that the distance between us and those galaxies is constantly on the increase. But Hubble's discovery went further. Not only were the galaxies moving away, but the speed at which they were doing so was greater the farther they were from us.

If we backtrack to an earlier time, it is clear that the galaxies were closer together. The further back we go, the closer they must have been. At the beginning of the universe, some 15 billion years ago, all the material in the galaxies we now see must have occupied a single point. The latest research into the early moments of time suggests that the building blocks of our universe were created immediately after that first instant — the big bang — as the universe began its explosive expansion from a single point.

Since then, the universe has expanded through time to the vastness we can observe today. The farthest objects that astronomers have observed — the superbright cores of distant galaxies called quasars — are about 10 billion light-years away. (A light-year is the distance traveled by a ray of light in one year — at a speed of about 186,000 miles (300,000 km) per second.)

Astronomers cannot be certain about the future of the universe. It will either collapse again under its own gravity to a single point or continue its expansion forever, becoming cold, empty, dead, and dark.

THE BIRTH AND GROWTH OF THE UNIVERSE
Our universe began in a single point about 15 billion years ago.
The illustration reconstructs its past and peers into alternative futures.



1. At the big bang – the moment of creation – the universe is concentrated into a single point, infinitely hot and dense. This is the beginning of space and time.

2. During the first billionths of a second, the universe goes through a brief phase of accelerated expansion, growing from the size of an atomic nucleus to the size of a volleyball.

3. After a millionth of a second, the primeval universe is a violently expanding fireball, about 10 billion miles in radius. It is filled with protons, neutrons, and electrons – the building blocks for atoms – as well as billions of tiny particles called neutrinos.

4. After one minute the universe, about a million billion miles across, has become a giant thermonuclear reactor, building the nuclei of helium atoms from the hydrogen nuclei created in the big bang. At a few billion degrees, it is still too hot for complete atoms to form.

5. After a few hundred thousand years, the temperature of the universe has sunk to about 4,000°C, no hotter than the surface of the sun. The bright mixture of matter and radiation is now cool and dispersed enough for atoms to form. The universe darkens, and matter begins to clump together under the force of gravity.

6. After a few billion years, the galaxies are born as vast clouds of gas begin to contract, triggering an epidemic of star formation.

TOWARD THE BIG CRUNCH.
If the bulk of matter in the universe is in something other than stars and galaxies, the future will take a different shape. It may be that around each galaxy in a vast halo is a form of matter that is invisible from earth. This dark matter could perhaps constitute 99 percent of the stuff of the universe. The gravitational force of this unseen matter may eventually halt and reverse the cosmic expansion. The galaxies will then begin to fall back on each other and eventually collide. The temperature will rise, and the universe will accelerate toward its catastrophic fate, when in the final gravitational collapse it will again return to a single point and complete obliteration. Some physicists have speculated that another universe might then be born, in which case the whole process could begin again.

DARK MATTER: THE SECRET BULK OF THE UNIVERSE

The dark matter that may constitute most of the substance in the universe, but is invisible to us, has not yet been positively identified. One strong candidate, however, is the tiny, almost massless particle called the neutrino. For a long time it was assumed that neutrinos had no mass, but recent research has suggested that they do have a tiny weight, about 0.005 percent of an electron — which is itself only 0.05 percent of the mass of an atom. Not surprisingly, neutrinos have been called the nearest thing to nothing yet conceived of by physicists.

Neutrinos are almost impossible to detect because they interact very weakly with other matter. Millions of them are at this moment streaming through your head and through this page. They could pass straight through many light-years of lead with only a small chance of knocking into an atom. Physicists have calculated that vast numbers of neutrinos – about 10^{90} (10 followed by 89 zeros) – were produced in the big bang, but none of these cosmic neutrinos has ever been or is likely to be observed.

LOOKING INTO THE PAST

Light takes time to cross interstellar space, traveling 5,878 billion miles (9,460 billion km) in a year. Therefore, when you look out into the night sky, what you are seeing is not the present but the past. Telescopes are timescopes. Light from the moon takes just over a second to reach us and from the sun about eight minutes. Proxima Centauri, the nearest star to the solar system, is about 4.3 light-years away, and light from distant galaxies may not reach us for many billions of years after it was emitted.

But there are limits to our ability to look into the past. The light now arriving at the earth from one of the most distant and ancient objects yet discovered — the quasar PKS 2000-330 — set out more than 10 billion years ago. That is almost as far as we can see. Any light coming from a point only a little farther away would have set out at a period in the universe's history when neither stars nor galaxies had yet been formed. The universe at that time was suffused with light in which no distinct sources could be identified. That epoch sets the limits on the universe that we can observe.

LIGHT-YEARS AWAY. We receive the light from the spiral galaxy M81, in Ursa Major, more than 18 million years after it was emitted.

EXPANSION INTO A FROZEN FUTURE. If the universe consists mainly of the luminous gas and stars that astronomers can see and there is no great bulk of dark matter, the inward pull of gravity will not be enough to stop the expansion set in motion by the big bang. The universe, in this case, will continue to grow forever. The stars will go out, because their nuclear fuel will be exhausted, creating a universe without light. Many stars and galaxies will collapse into black holes. The cosmos as we know it will have disintegrated.

7. Today the galaxies are gathered in superclusters, 100 to 400 million light-years apart, in great sheets and filaments with darkness between them. The explosive heat of the big bang has dwindled to a faint background radiation.

Our Neighborhood in Space

We live near the outer edge of a spiral galaxy, a giant Catherine wheel, glowing with the light of 100 billion stars and stretching 100,000 light-years through space. The whole galaxy is turning on its axis (the sun takes more than 200 million years to complete a single revolution) and, over the 12 billion years the galaxy has been in existence, that rotation has flattened into a disc the region where new stars form.

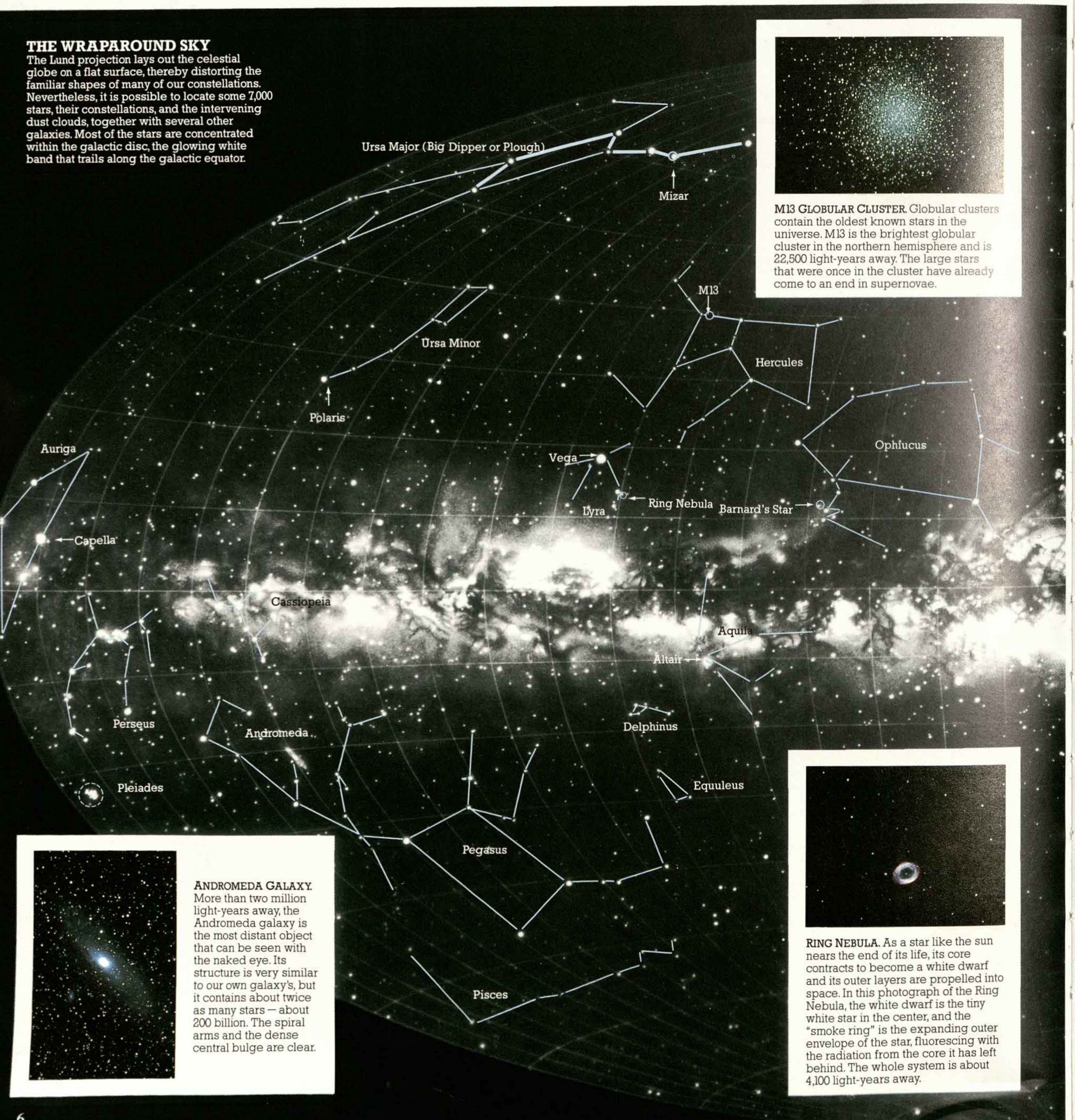
This is our neighborhood in space, but from our position inside the galaxy, 28,000 light-years from the center, we have no more than a sideways view. Like a plate seen edge on, we see our galaxy compressed into the band of stars we call the Milky Way.

To obtain a complete image of the galaxy presents many problems. It surrounds the earth on every side, and from any one point on the surface of the earth large parts of the galaxy are obscured. Astronomers from the Lund Observatory in Sweden, however, have overcome this difficulty by constructing a mosaic of photographs taken from several different places around the world. In this way they have been able to unfold the sky and lay it out flat, to make a map of the celestial globe.

The Lund map (below) shows the positions of about 7,000 stars, all of them visible with the naked eye and most of them within about 10,000 light-years of us. Although within the Milky Way, many of the stars in the plane of the galaxy are much farther away, and their images are too faint and too near each other to be seen individually.

Nevertheless, we can deduce something about the nature of the galactic disc. Were it not for the thick lanes of dust that, wound round in the spiral arms, lie between us and the center and cut out virtually all the light, the view toward the center would be bright with the tightly packed stars of the core. The dust appears on the photograph as dark, almost starless blotches.

Many of the images outside the plane of the disc come from sources outside our own galaxy. For example, the two bright spots beneath the Milky Way on the right-hand side are satellite galaxies, called the Small and Large Magellanic Clouds.



THE WRAPAROUND SKY
The Lund projection lays out the celestial globe on a flat surface, thereby distorting the familiar shapes of many of our constellations. Nevertheless, it is possible to locate some 7,000 stars, their constellations, and the intervening dust clouds, together with several other galaxies. Most of the stars are concentrated within the galactic disc, the glowing white band that trails along the galactic equator.

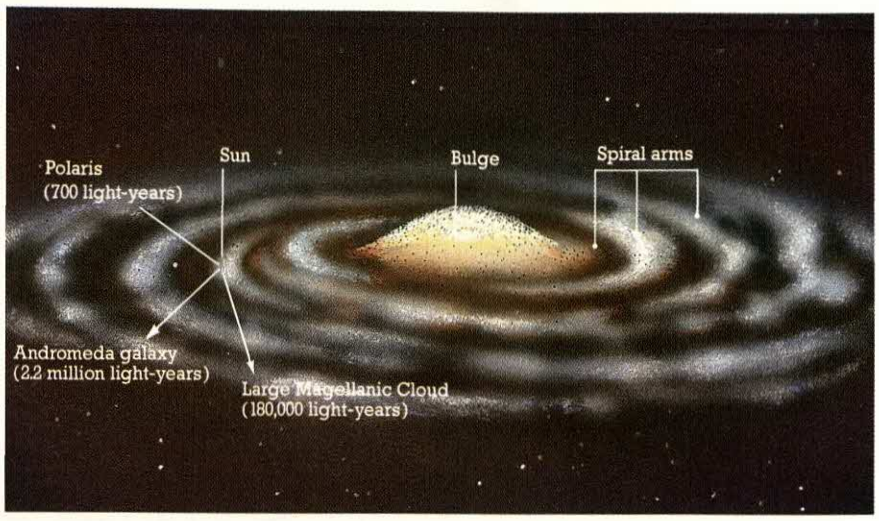
M13 GLOBULAR CLUSTER. Globular clusters contain the oldest known stars in the universe. M13 is the brightest globular cluster in the northern hemisphere and is 22,500 light-years away. The large stars that were once in the cluster have already come to an end in supernovae.

ANDROMEDA GALAXY. More than two million light-years away, the Andromeda galaxy is the most distant object that can be seen with the naked eye. Its structure is very similar to our own galaxy's, but it contains about twice as many stars — about 200 billion. The spiral arms and the dense central bulge are clear.

RING NEBULA. As a star like the sun nears the end of its life, its core contracts to become a white dwarf and its outer layers are propelled into space. In this photograph of the Ring Nebula, the white dwarf is the tiny white star in the center, and the "smoke ring" is the expanding outer envelope of the star, fluorescing with the radiation from the core it has left behind. The whole system is about 4,100 light-years away.

GALACTIC ARCHITECTURE

The shape of the galaxy is based on a delicate interplay between two cosmic forces. The centrifugal effects of rotation tend to scatter the stars into outer space, and the pull of gravity tries to drag them in toward the center. Balanced between these two forces, and molded by them, the galaxy makes its slow and stately progress through the universe.



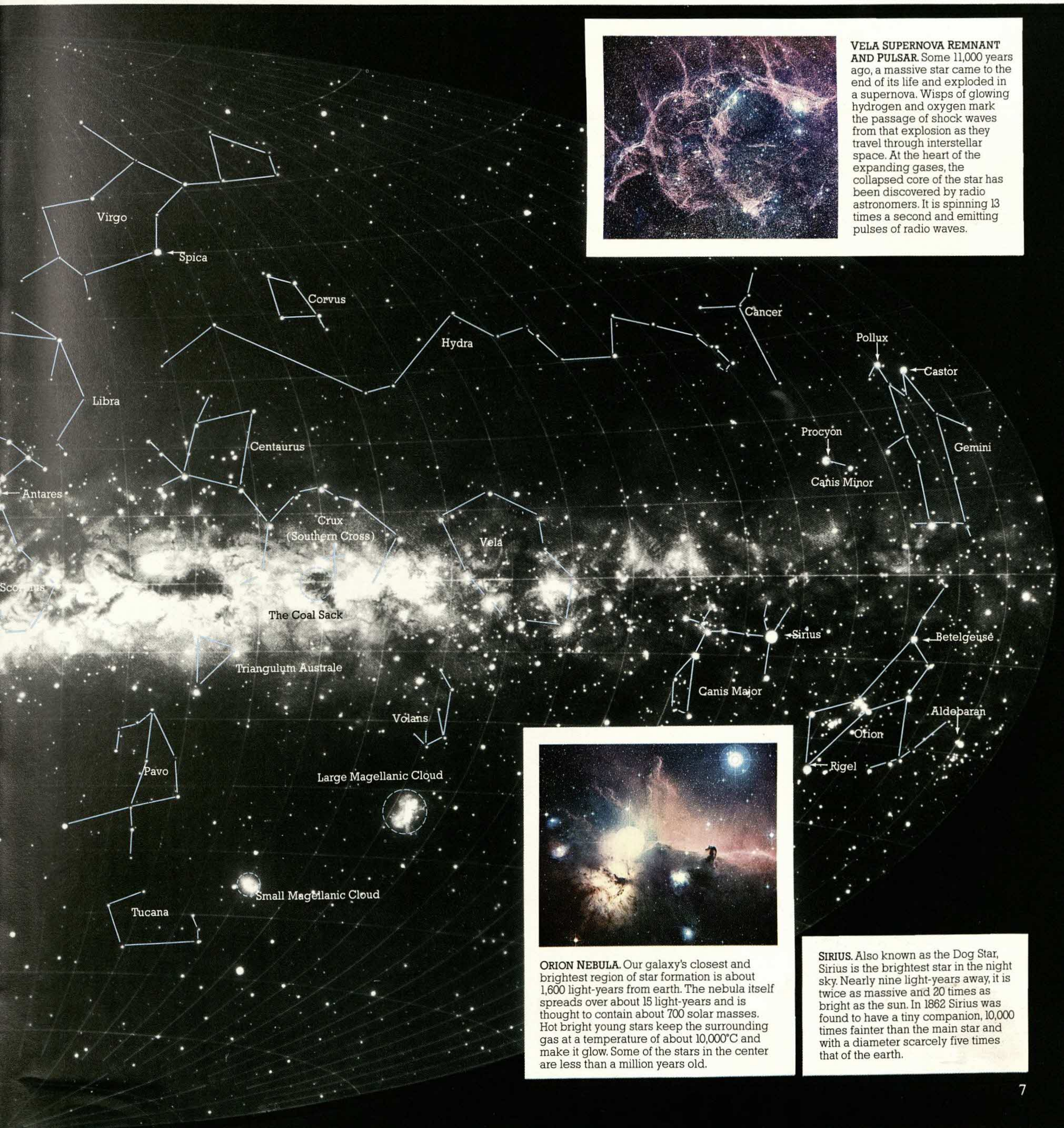
THE STRUCTURE OF THE MILKY WAY. The main characteristics of the Milky Way are its bulge, disc, spiral arms, and halo. As a guide to the Lund map and to the scale of the night sky, our sun and the star Polaris have been located, together with features outside the Milky Way, such as the Large Magellanic Cloud and the Andromeda galaxy.

In the central bulge, 30,000 light-years in diameter, gravity has concentrated the stars very thickly. If the earth were orbiting a star there, night would be made as bright as day. Bulge stars are old and orange-red. At the very center, there may be a small black hole. The matter falling into this might be the source of power for the radio waves that spread out from the galactic center.

Surrounding the bulge is the great disc of younger stars like the sun, part of a second generation that formed from the enriched gas and dust clouds that were the end product of the earlier stars. In the disc, less than 3,000 light-years thick, there are four ragged spiral arms extending from the nuclear bulge and coiled around each other. Stars and dust clouds are not fixed in these arms, but move through them as they orbit the center of the galaxy. The arms themselves are produced by the dynamics of rotation, like the ridges in a whirlpool, and over time the pattern slowly spirals outward as the galaxy rotates. As the arms move through the interstellar clouds of the galaxy, they concentrate the dust and gas there, triggering the formation of new stars in bright bands along the inner edges of the arms.

Above and below the disc is the halo, a nearly spherical region 150,000 light-years or more across. The halo preserves the shape of the early galaxy before it contracted and flattened to a rotating disc. The halo is filled with widely separated single stars and with about 500 massive globular clusters, each containing hundreds of thousands of stars.

Astronomers have not been able to establish the size of the halo with any precision, nor its constituents. Gradually diminishing into intergalactic space, it may be filled with dead stars, stars of very low mass, or large numbers of subatomic particles, none of which can be seen.



VELA SUPERNOVA REMNANT AND PULSAR. Some 11,000 years ago, a massive star came to the end of its life and exploded in a supernova. Wisps of glowing hydrogen and oxygen mark the passage of shock waves from that explosion as they travel through interstellar space. At the heart of the expanding gases, the collapsed core of the star has been discovered by radio astronomers. It is spinning 13 times a second and emitting pulses of radio waves.

ORION NEBULA. Our galaxy's closest and brightest region of star formation is about 1,600 light-years from earth. The nebula itself spreads over about 15 light-years and is thought to contain about 700 solar masses. Hot bright young stars keep the surrounding gas at a temperature of about 10,000°C and make it glow. Some of the stars in the center are less than a million years old.

SIRIUS. Also known as the Dog Star, Sirius is the brightest star in the night sky. Nearly nine light-years away, it is twice as massive and 20 times as bright as the sun. In 1862 Sirius was found to have a tiny companion, 10,000 times fainter than the main star and with a diameter scarcely five times that of the earth.

Stars: Cosmic Dust to Nuclear Furnace

Our sun is an average star — middle-aged and middle-weight, leading a steady, settled life in the suburbs of an ordinary galaxy. It is, for the time being, in perfect balance. The inward pull of gravity exactly counteracts the heat and pressure of the nuclear furnace at the core, which would otherwise explode the star. We should be grateful. Only in the neighborhood of such a reliable and long-lived body is it possible to find the constant conditions of warmth and light that are necessary for life.

A star much smaller than the sun will never become hot enough for nuclear burning to start in the core, and a planet circling such a star would be in constant twilight and frost. A star much more massive than the sun will lead a more hectic life, burning very fiercely and exhausting its fuel in 10 million years or less. If the earth had been the satellite of a massive star, there would have been no time for the complex evolution of life to occur.

Nevertheless, these massive stars do play a crucial part in the formation of life. Every atom on earth was once fused either in the burning heart of such a star or in the massive supernova explosion that ended its life, scattering into interstellar space the heavy elements from which the sun and the planets began to form. In the infancy of the galaxy there was a brief and brilliant generation of massive stars. Most of them have now disappeared, but we live off their legacy.

Man has never observed the life history of a single star, because the time scale is so vast. However, by combining observations of different stars at different stages in their lives, we can reconstruct the evolution of our sun. Parts of this story are retold in the sky every night: in the wispy remains of the Vela supernova, in the recently formed stars of the Orion Nebula, in the red supergiants such as Betelgeuse, in the white dwarf that accompanies Sirius, and even in our own solar system.

THE STRUCTURE OF THE SUN

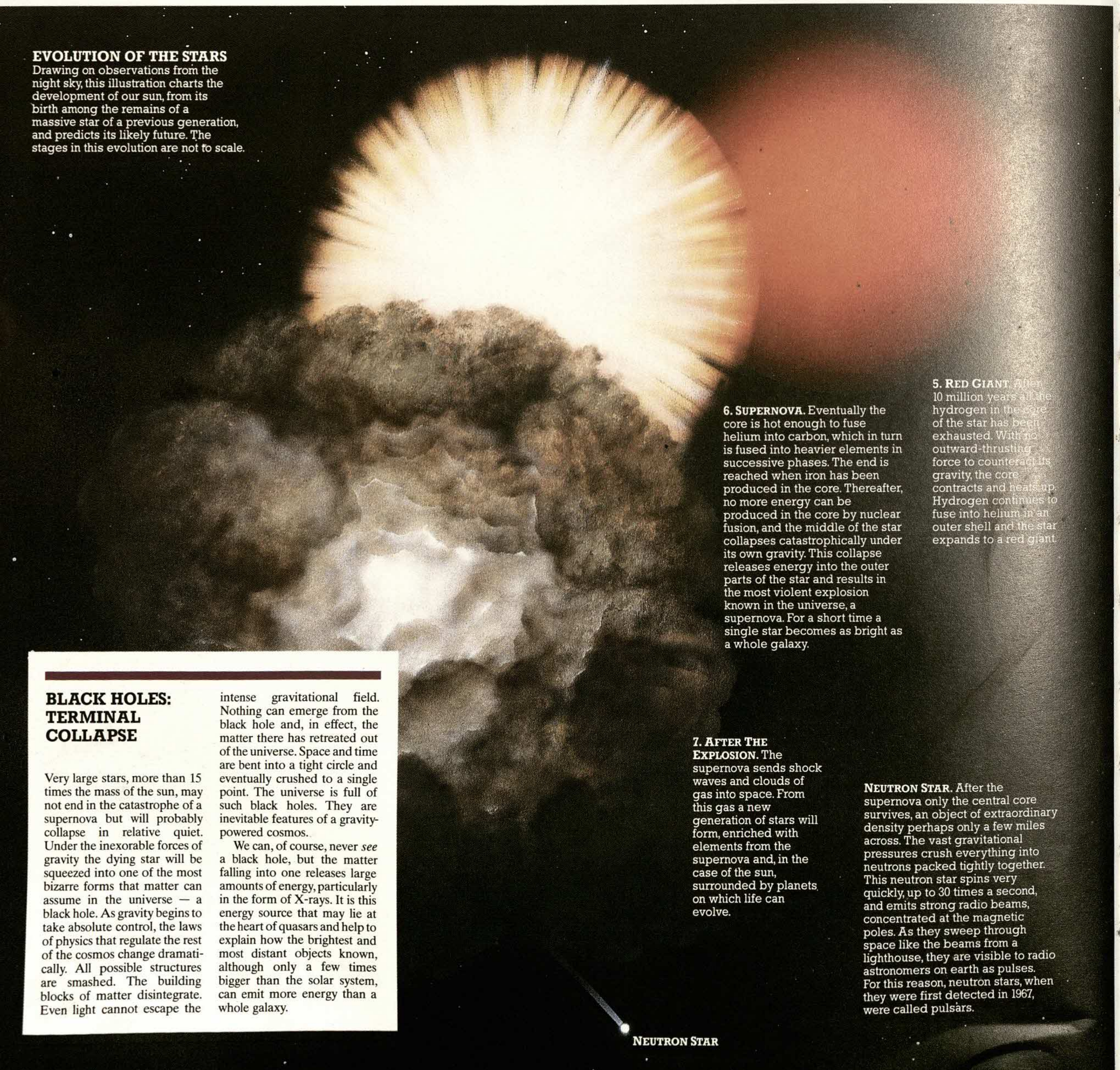
The architecture of the sun consists of a series of nested shells, one inside the other, like the layers of an onion.

At the very center and stretching a quarter of the way to the surface is the core. The temperature is about 15 million °C, and the density of the compressed gases is 12 times that of lead. A pinhead of this turbulent matter would be hot enough to kill a man at a thousand miles. These conditions are extreme enough for nuclear fusion to occur. Every second, millions of tons of hydrogen are fused into helium. In the process about 4.5 million tons of matter is converted into energy, which then radiates out from the core.

The radiative zone surrounds the core and extends four-fifths of the way to the surface. The gamma rays, X-rays, and photons produced in the core fight their way outward through the dense solar gases. It is a slow journey, and a single ray can take a million years to cross this zone.

In the outermost fifth of the sun, energy is moved in large bundles of gas, driven by the heat from within. This convective zone consists of layers of cells, each smaller than the one below. Each of the cells in the outer tier is about 600 miles (1,000 km) across and is bordered by an area in which the gas sinks back into the sun.

This pattern of rising and falling gas gives the sun's surface, called the photosphere, a mottled and granulated appearance, bright where gas is rising and dark where it is sinking. The photosphere is no more than a few hundred miles thick and is usually marked by sunspots, which are often the size of the earth in diameter and about 2,000°C cooler than the surrounding surface. The spots mark kinks in the sun's magnetic field, where it has been twisted and contorted by the rotation of the gases and by the turbulence in the convective zone. Spots often occur in pairs, each with an opposite



EVOLUTION OF THE STARS
Drawing on observations from the night sky, this illustration charts the development of our sun, from its birth among the remains of a massive star of a previous generation, and predicts its likely future. The stages in this evolution are not to scale.

5. RED GIANT. After 10 million years all the hydrogen in the core of the star has been exhausted. With no outward-thrusting force to counteract its gravity, the core contracts and heats up. Hydrogen continues to fuse into helium in an outer shell and the star expands to a red giant.

6. SUPERNOVA. Eventually the core is hot enough to fuse helium into carbon, which in turn is fused into heavier elements in successive phases. The end is reached when iron has been produced in the core. Thereafter, no more energy can be produced in the core by nuclear fusion, and the middle of the star collapses catastrophically under its own gravity. This collapse releases energy into the outer parts of the star and results in the most violent explosion known in the universe, a supernova. For a short time a single star becomes as bright as a whole galaxy.

7. AFTER THE EXPLOSION. The supernova sends shock waves and clouds of gas into space. From this gas a new generation of stars will form, enriched with elements from the supernova and, in the case of the sun, surrounded by planets on which life can evolve.

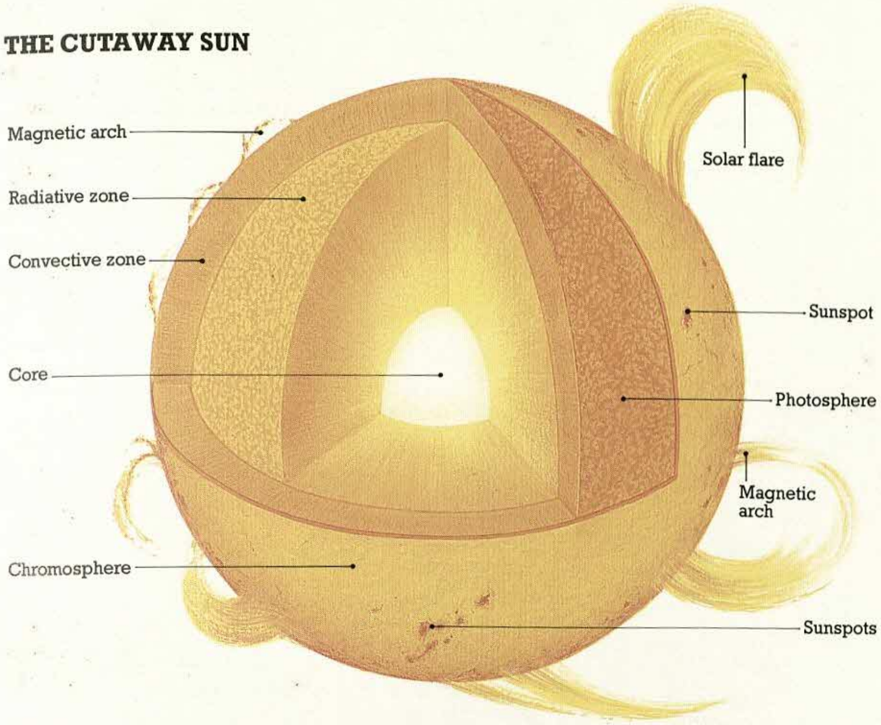
NEUTRON STAR. After the supernova only the central core survives, an object of extraordinary density perhaps only a few miles across. The vast gravitational pressures crush everything into neutrons packed tightly together. This neutron star spins very quickly, up to 30 times a second, and emits strong radio beams, concentrated at the magnetic poles. As they sweep through space like the beams from a lighthouse, they are visible to radio astronomers on earth as pulses. For this reason, neutron stars, when they were first detected in 1967, were called pulsars.

BLACK HOLES: TERMINAL COLLAPSE

Very large stars, more than 15 times the mass of the sun, may not end in the catastrophe of a supernova but will probably collapse in relative quiet. Under the inexorable forces of gravity the dying star will be squeezed into one of the most bizarre forms that matter can assume in the universe — a black hole. As gravity begins to take absolute control, the laws of physics that regulate the rest of the cosmos change dramatically. All possible structures are smashed. The building blocks of matter disintegrate. Even light cannot escape the intense gravitational field. Nothing can emerge from the black hole and, in effect, the matter there has retreated out of the universe. Space and time are bent into a tight circle and eventually crushed to a single point. The universe is full of such black holes. They are inevitable features of a gravity-powered cosmos.

We can, of course, never *see* a black hole, but the matter falling into one releases large amounts of energy, particularly in the form of X-rays. It is this energy source that may lie at the heart of quasars and help to explain how the brightest and most distant objects known, although only a few times bigger than the solar system, can emit more energy than a whole galaxy.

THE CUTAWAY SUN

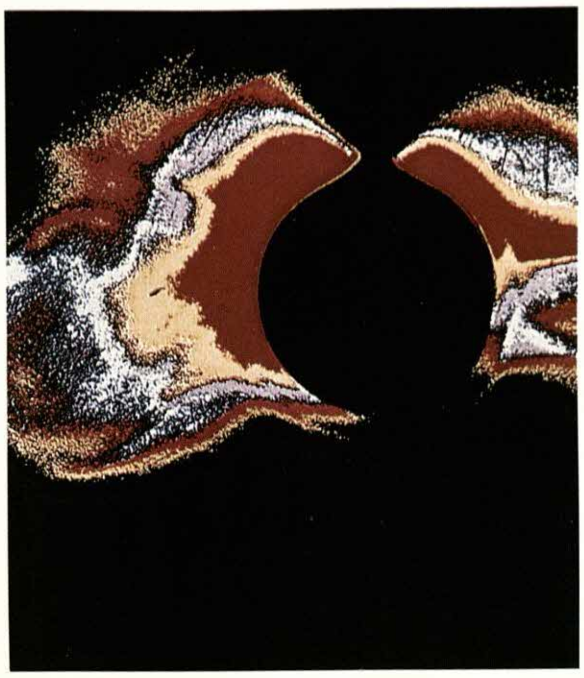


SOLAR ARCHITECTURE. The distance from the sun's core through its various layered zones to the surface is about 432,500 miles (696,000 km) – 109 times the radius of the earth.

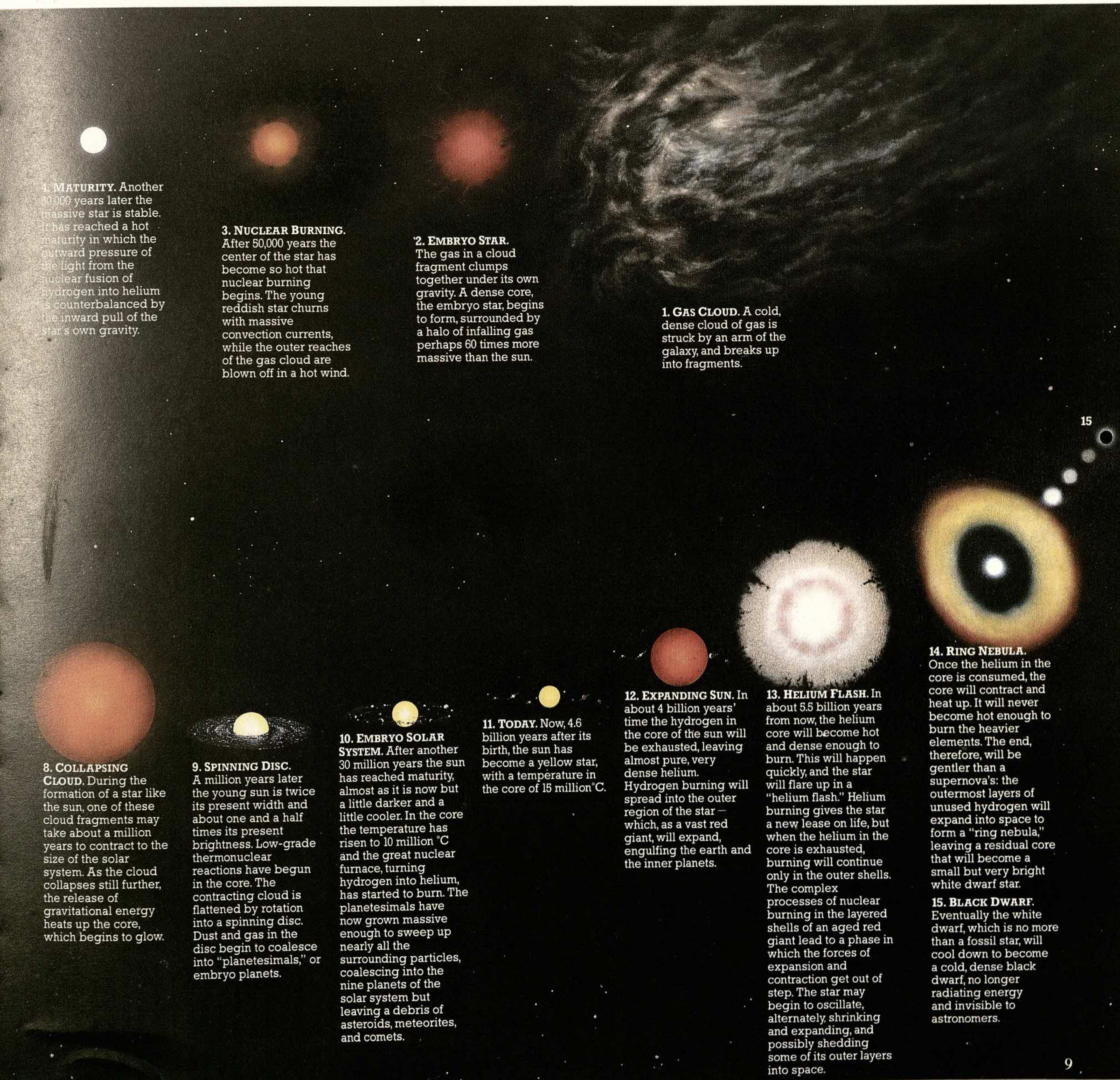
magnetic polarity. The lines of magnetic force emerge at one spot to reenter the surface at the other.

Beyond the surface of the sun, the sun's atmosphere, or chromosphere, is a few thousand miles thick. Here the sun's magnetic field arranges the gases in long "hedges," like the iron filings around a magnet. Above them giant braided arches loop between sunspots – sometimes hanging there for months at a time, sometimes for a few minutes – bursting in flares and prominences up to several hundred thousand miles out into space.

More constant but less dramatic is the faint halo of white light called the corona. In places, particularly above the sun's magnetic poles, gaps appear in the corona and the light glows less intensely. These holes are the sources of the solar wind, a great stream of atomic particles that have escaped the sun's magnetic grip and slipped out into space, bathing the solar system and sweeping past the earth.



SOLAR DISPLAY. Flaring streamers in the corona may climb more than 400,000 miles (about 640,000 km) above the sun's surface. In this image, taken from the U.S. space station Skylab, gaps in the corona above the sun's poles are clear.



1. GAS CLOUD. A cold, dense cloud of gas is struck by an arm of the galaxy, and breaks up into fragments.

2. EMBRYO STAR. The gas in a cloud fragment clumps together under its own gravity. A dense core, the embryo star, begins to form, surrounded by a halo of infalling gas perhaps 60 times more massive than the sun.

3. NUCLEAR BURNING. After 50,000 years the center of the star has become so hot that nuclear burning begins. The young reddish star churns with massive convection currents, while the outer reaches of the gas cloud are blown off in a hot wind.

4. MATURITY. Another 30,000 years later the massive star is stable. It has reached a hot maturity in which the outward pressure of the light from the nuclear fusion of hydrogen into helium is counterbalanced by the inward pull of the star's own gravity.

8. COLLAPSING CLOUD. During the formation of a star like the sun, one of these cloud fragments may take about a million years to contract to the size of the solar system. As the cloud collapses still further, the release of gravitational energy heats up the core, which begins to glow.

9. SPINNING DISC. A million years later the young sun is twice its present width and about one and a half times its present brightness. Low-grade thermonuclear reactions have begun in the core. The contracting cloud is flattened by rotation into a spinning disc. Dust and gas in the disc begin to coalesce into "planetesimals," or embryo planets.

10. EMBRYO SOLAR SYSTEM. After another 30 million years the sun has reached maturity, almost as it is now but a little darker and a little cooler. In the core the temperature has risen to 10 million °C and the great nuclear furnace, turning hydrogen into helium, has started to burn. The planetesimals have now grown massive enough to sweep up nearly all the surrounding particles, coalescing into the nine planets of the solar system but leaving a debris of asteroids, meteorites, and comets.

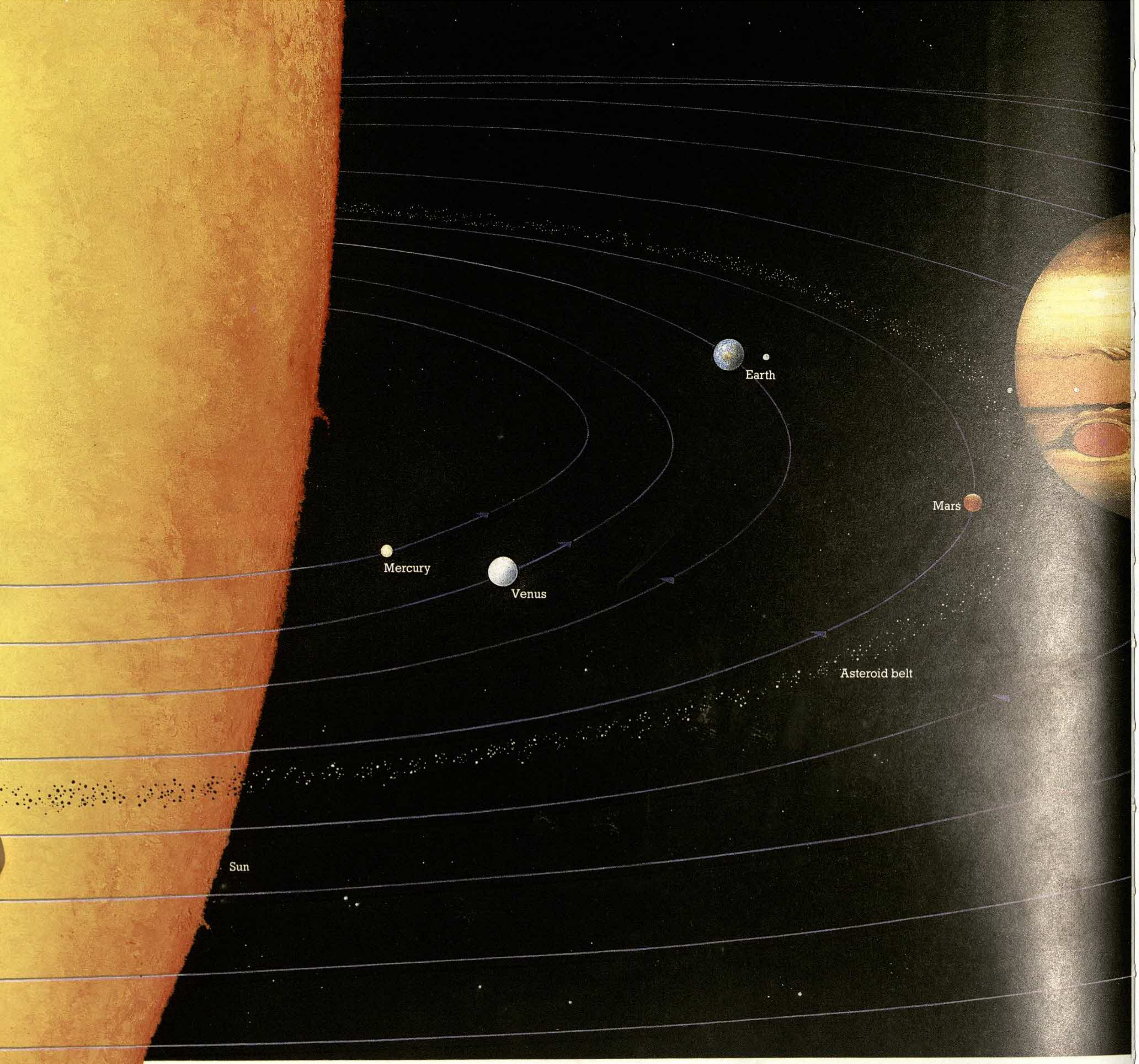
11. TODAY. Now, 4.6 billion years after its birth, the sun has become a yellow star, with a temperature in the core of 15 million°C.

12. EXPANDING SUN. In about 4 billion years' time the hydrogen in the core of the sun will be exhausted, leaving almost pure, very dense helium. Hydrogen burning will spread into the outer region of the star – which, as a vast red giant, will expand, engulfing the earth and the inner planets.

13. HELIUM FLASH. In about 5.5 billion years from now, the helium core will become hot and dense enough to burn. This will happen quickly, and the star will flare up in a "helium flash." Helium burning gives the star a new lease on life, but when the helium in the core is exhausted, burning will continue only in the outer shells. The complex processes of nuclear burning in the layered shells of an aged red giant lead to a phase in which the forces of expansion and contraction get out of step. The star may begin to oscillate, alternately shrinking and expanding, and possibly shedding some of its outer layers into space.

14. RING NEBULA. Once the helium in the core is consumed, the core will contract and heat up. It will never become hot enough to burn the heavier elements. The end, therefore, will be gentler than a supernova's: the outermost layers of unused hydrogen will expand into space to form a "ring nebula," leaving a residual core that will become a small but very bright white dwarf star.

15. BLACK DWARF. Eventually the white dwarf, which is no more than a fossil star, will cool down to become a cold, dense black dwarf, no longer radiating energy and invisible to astronomers.



Solar System: Empire of the Sun

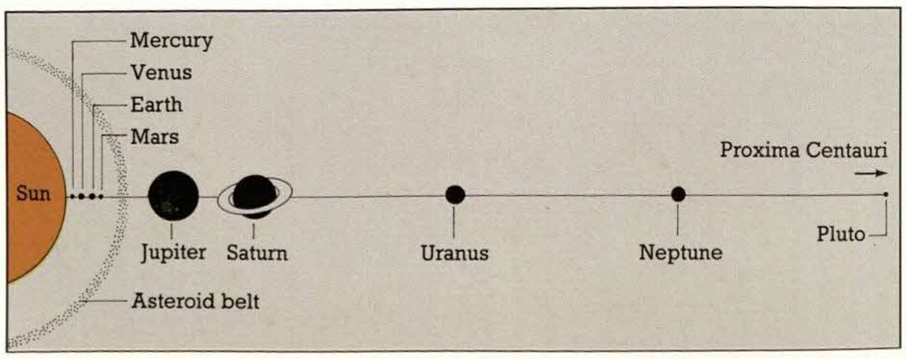
Some 4.6 billion years ago, a spinning cloud of cosmic dust and gas contracted to form a young star and its retinue of planets. What emerged was the highly ordered structure of the solar system.

The star, our sun, weighs almost 1,000 times as much as the rest of the system put together. Its massive gravitational force guides the nine planets, dozens of satellites and comets, and hundreds of thousands of asteroids – lumps of rock that never coalesced into planets – around the sky. The path of each planet around the sun is determined by a balance between the inward pull of the sun's gravity and the orbital speed of the planet itself, which tends to propel it outward. Planets closer to the sun, where the inward pull is stronger, move faster than those farther out.

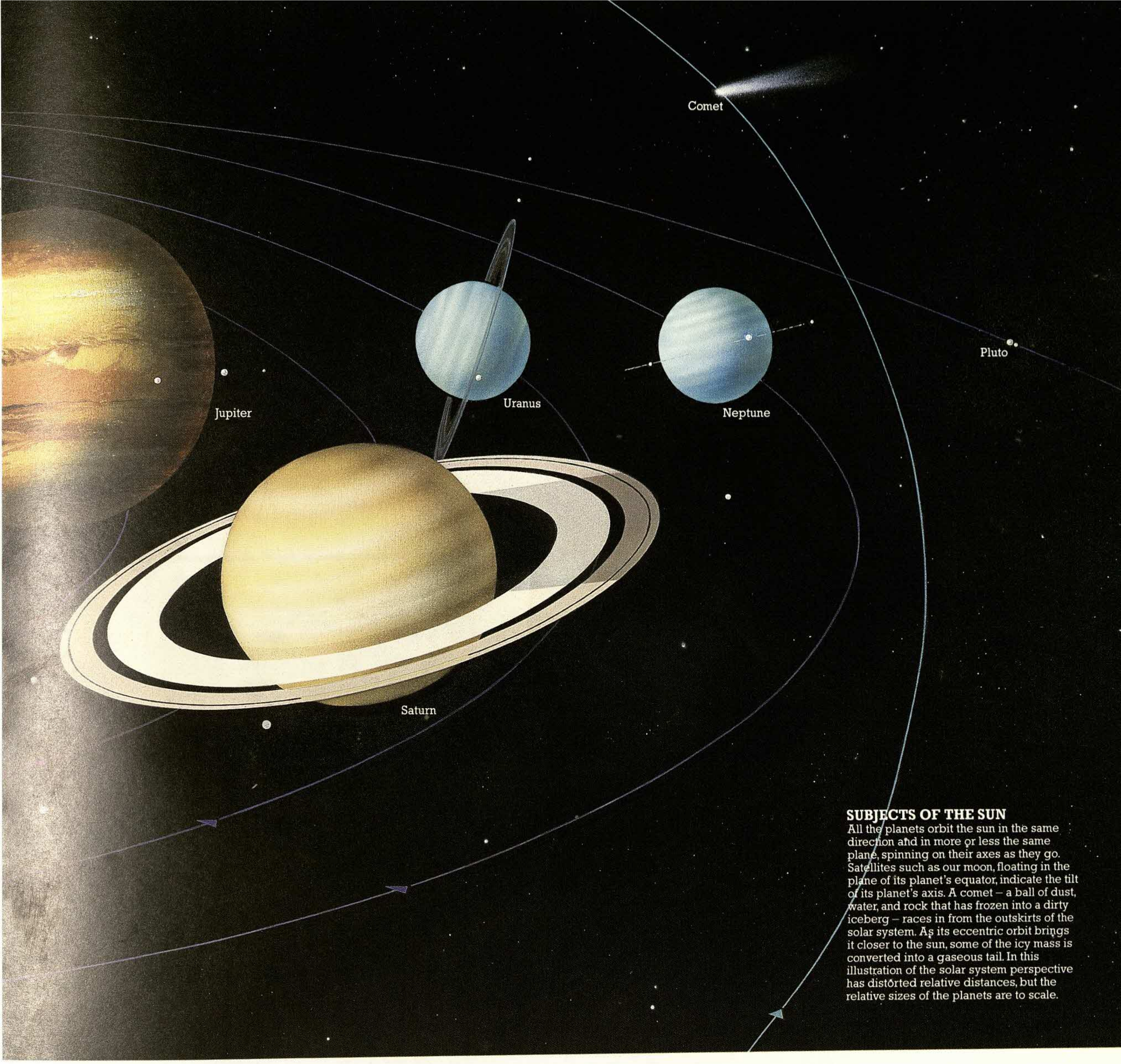
The influence of the sun is all-important. As well as controlling the orbital velocities of the planets, it has shaped their characters, so that their chemical composition and mass vary according to their distance from the sun (see CHARACTER ANALYSIS). Despite their subjection to the sun, the individual planets have their idiosyncracies. Unlike the earth and the other planets that rotate on their axes from west to east, Venus and Uranus spin in the opposite direction. Uranus's axis of rotation is tilted almost into the plane of its orbit.

It is less than 60 years since Pluto, the ninth planet, was located. And there is still speculation over the existence of a tenth planet in our solar system. Some astronomers are convinced that the slight wiggle in the orbits of Uranus and Neptune is caused by the gravitational pull of a very dim and distant planet beyond Pluto.

It is almost certain that our solar system is not unique. The motion of several nearby stars – including Barnard's Star, 5.9 light-years away – suggests that they may be perturbed by the gravitational force of planetary companions. Astrophysicists reckon that around each of about 20 billion of the stars in our galaxy there is likely to be at least one planet at the right distance for life to emerge.



DISCOVERING DISTANT WORLDS. In this diagram the relative distances of the planets from each other and from the sun are shown to scale. The nearest star, Proxima Centauri, would be 660 yards (600 m) away.



SUBJECTS OF THE SUN
All the planets orbit the sun in the same direction and in more or less the same plane, spinning on their axes as they go. Satellites such as our moon, floating in the plane of its planet's equator, indicate the tilt of its planet's axis. A comet – a ball of dust, water, and rock that has frozen into a dirty iceberg – races in from the outskirts of the solar system. As its eccentric orbit brings it closer to the sun, some of the icy mass is converted into a gaseous tail. In this illustration of the solar system perspective has distorted relative distances, but the relative sizes of the planets are to scale.

CHARACTER ANALYSIS OF THE PLANETS

The chemical composition and other characteristics of the planets are determined by their distances from the sun. In the original chaos of the solar system the heavier elements, such as the metals, condensed and solidified around dust particles at the higher temperatures nearest the sun. For this reason, the inner planets (Mercury, Venus, Earth, and Mars) are denser and more "terrestrial" than those farther out. Lighter elements, such as hydrogen and helium, remained as gases because they condense into a liquid only at temperatures close to absolute zero; they were flung out from the inner regions of the solar system to form the "gaseous" bodies of Jupiter and of Saturn, which is of such low density that it would float on water. The wide orbits of these two planets allowed them to sweep up large quantities of gas, making them massive. This, in turn, increased their escape velocity – the speed needed for an object to escape from the planet's gravity. A great deal of the matter attracted by Jupiter and Saturn did not become part of those planets themselves but took the form of miniature planetary systems, each a whirlpool of gas that eventually became satellites and rings. One theory contends that, because Jupiter took up so much gas, the supply for the planets beyond it was reduced. Saturn is smaller than its giant neighbor, and the three outermost planets — Uranus, Neptune, and Pluto — are smaller still, as are their masses, escape velocities, and their retinues of moons and rings.

	Time taken to orbit the sun in earth years	Average orbital velocity in miles/second (km/sec)	Angle between orbit of planet and orbit of earth	Time taken to rotate on axis in earth time	Tilt of axis to perpendicular of orbital plane	Average distance from sun in astronomical units*	Average surface temperature in °C	Density relative to water	Equatorial diameter relative to earth diameter†	Mass relative to earth	Escape velocity in miles/second (km/sec)	Number of known moons	Number of known rings	Date of discovery
Mercury	0.24	29.8 (47.9)	7.00°	58 days 15 hr 36 min	0°?	0.39	+350° (day) −170° (night)	5.4	0.38	0.06	2.64 (4.25)	0	0	These planets are all visible to the naked eye.
Venus	0.62	21.7 (35.0)	3.39°	243 days	178°	0.72	+475°	5.3	0.95	0.82	6.43 (10.36)	0	0	
Earth	1.00	18.5 (29.8)	–	23 hr 56 min	23.45°	1.00	+22°	5.5	1.00	1.00	6.95 (11.18)	1	0	
Mars	1.88	15.0 (24.1)	1.85°	24 hr 37 min	24°	1.52	−23°	3.9	0.53	0.11	3.12 (5.02)	2	0	
Jupiter	11.86	8.1 (13.1)	1.30°	9 hr 55 min	3°	5.20	−123° (at cloud tops)	1.3	11.2	318	37.06 (59.64)	16	1	
Saturn	29.46	6.0 (9.6)	2.49°	10 hr 40 min	27°	9.54	−180° (at cloud tops)	0.7	9.4	95	22.0 (35.41)	17	Extensive system	
Uranus	84.0	4.2 (6.8)	0.77°	16 hr	98°	19.2	−218° (at cloud tops)	1.7	4.1	15	13.3 (21.41)	15	10	1781
Neptune	164.8	3.4 (5.4)	1.77°	18 hr	29°	30.1	−228° (at cloud tops)	1.8	3.9	17	14.61 (23.52)	2	1	1846
Pluto	248	2.9 (4.7)	17.2°	6 days 9 hr	50°?	39.5	−230°?	1.1	0.25	0.002	0.6 (1.0)	1	0	1930

*One astronomical unit is 92,956,000 miles (149,598,000 km). †Earth's diameter is 7,926 miles (12,756 km).

Partners in Orbit

Less than a century ago, people thought that Venus was a steaming tropical swamp and that Mars was inhabited by creatures intelligent enough to construct canals. They did not even suspect the existence of Pluto. Today such ideas are as dead as the notion that the earth is flat. For, over the past few decades, our knowledge about the earth's neighbors in space has been transformed.

The thousands of photographs of Mercury and Venus transmitted by the U.S. Mariner 10 in 1974 were the first detailed pictures of two planets that had previously appeared featureless when viewed through earthbound telescopes. Then, in 1975, the Soviet spacecraft Venera 9 and Venera 10 survived the pressure of Venus's atmosphere to land intact and send back the first photographs of that planet's surface. The unmanned U.S. Vikings 1 and 2 went into orbit around Mars in 1976. Their landers separated from the orbiting craft and touched down safely, enabling a tiny laboratory on board to test soil samples for signs of life. In 1973 and 1974 the U.S. Pioneers 10 and 11 flew past Jupiter – eight times farther from the earth than Mars – on their way to interstellar space. They blazed the trail for the "grand tour" of the U.S. Voyagers. Voyager 1, having flown by Jupiter and Saturn, has already left the plane in which the planets orbit the sun and is journeying through uncharted regions toward the boundary of the solar system. By the end of the 1980's, Voyager 2 will have encountered Jupiter, Saturn, Uranus, and Neptune before heading off toward Sirius, 8.7 light-years from earth.

We owe these achievements to rapid developments in the technology of interplanetary space probes. Atlas Centaur rockets blasted Pioneers 10 and 11 away from earth at 16 times the speed of a rifle bullet. Although this is faster than the earth's escape velocity – the speed needed to escape from the earth's gravity – it would not have been sufficient to enable the Pioneers to escape the sun's gravity and end up between the stars of the galaxy. To accomplish this, scientists used split-second timing to exploit the gravitational effects of the planets themselves. In 1973, Pioneer 10 was the first probe to be dragged along by the gravitational pull of Jupiter and hurled on its journey toward Pluto and interstellar space.

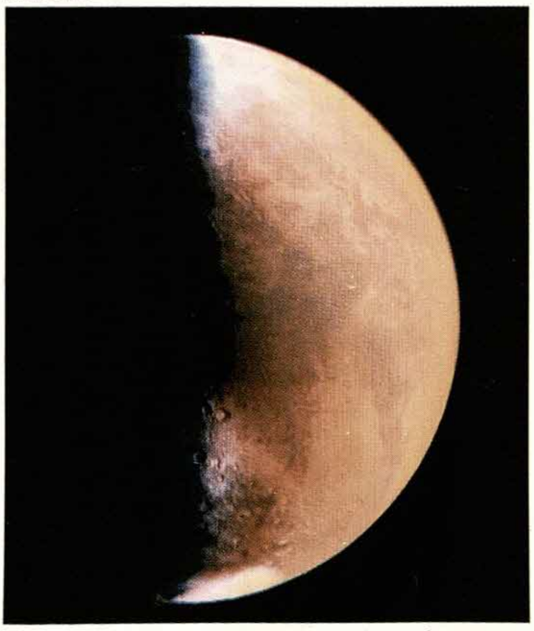
MERCURY

In this photograph the fastest-moving planet in our solar system flits across the face of the sun. Very little was known about Mercury before Mariner 10 made the first of its three fly-bys in 1974. The photographs transmitted back to earth by the spacecraft were pieced together in a giant jigsaw puzzle that revealed a world very similar to our moon. Bombardment by meteorites has scarred the surface, forming craters and hurling up concentric rings of mountains around them. The planet's core has contracted, and the surface has puckered and creased into ridges. Mercury is too small to retain a protective atmosphere. As a result, it is a planet of extremes: scorched by the sun during the day and frozen by night.

VENUS

What may appear in our skies as a beautiful and beguiling object is, on the surface, a scene of desolation: a wasteland of rocks roasted by the highest temperatures of all the planets in the solar system. The early Soviet space probes – Veneras 4, 5, and 6 – were crushed by the intense pressure of the planet's atmosphere (90 times that of the earth) as they attempted to land. Later Veneras, however, were more successful. From them, from Mariner 10 (which flew by on its way to Mercury), and from the U.S. Pioneer Venus (which has been in orbit since 1978) we have learned more about the planet. Venus's atmosphere is composed mostly of carbon dioxide, which traps more heat than it radiates, creating pressure-cooker conditions. Volcanic eruptions belch clouds of sulfur dioxide into the skies.

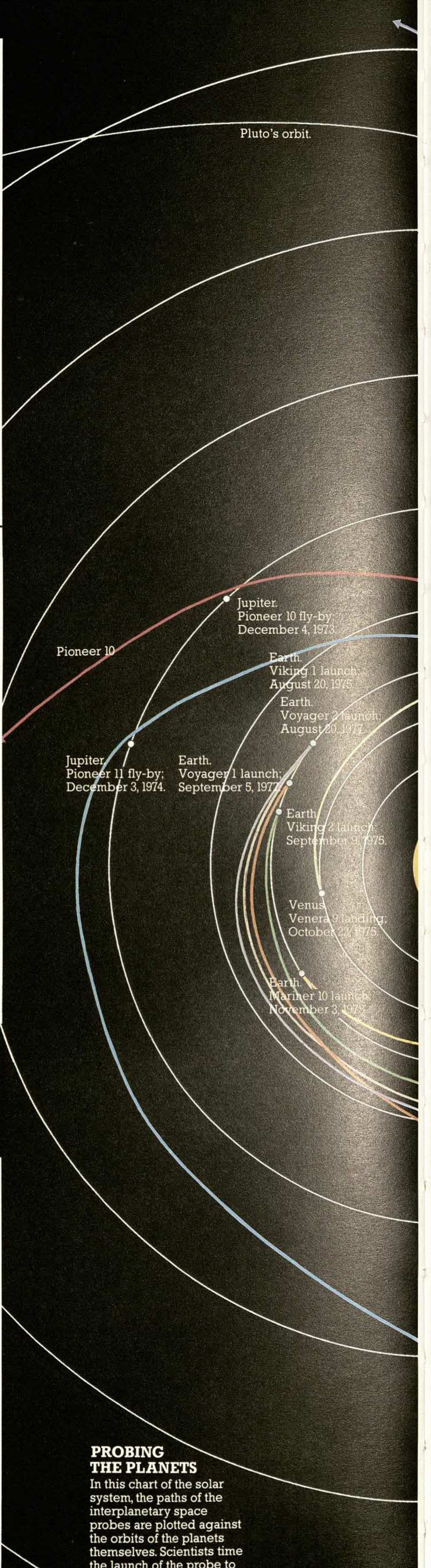
MARS



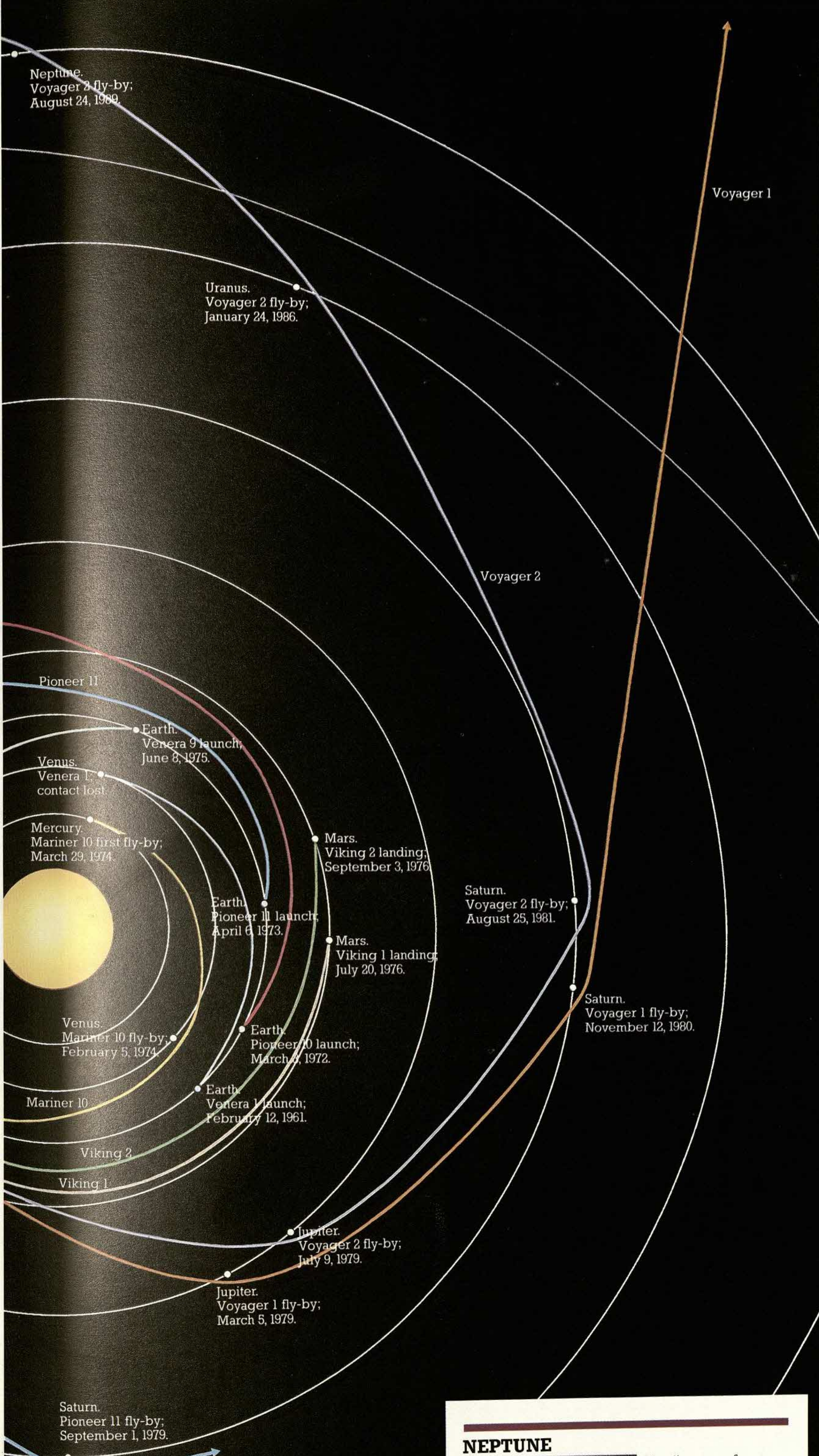
Because of its superficial similarities to the earth, scientists assumed until recently that there might be life on Mars. The length of its day and the tilt of its axis are almost identical to those of the earth; there are even ice caps at its poles. However, exhaustive tests of the rust-red soil and scans of the salmon-pink skies have indicated that the essentials of life are absent: the planet's limited supplies of surface water are frozen; there is very little oxygen; and no ozone layer protects the planet from the sun's ultraviolet radiation.

JUPITER

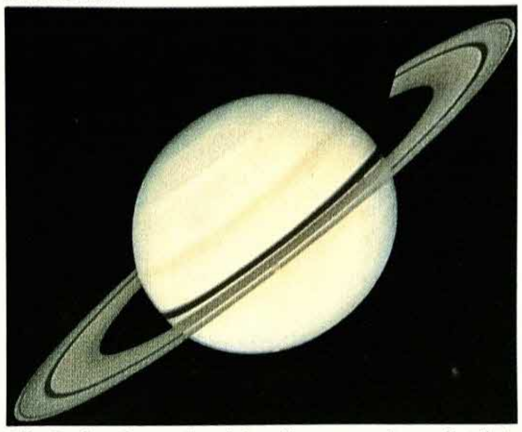
Of all the planets in our solar system, Jupiter is the one that most nearly became a star. Its mass has attracted at least 16 satellites, such as Io which, in this photograph, floats in front. A vast bulk of gases wreathes the planet in a kaleidoscope of swirling clouds. Voyagers 1 and 2 have also returned spectacular photographs of Jupiter's Great Red Spot, a cloud system three times the size of the earth. Beneath it, hydrogen and helium are so compressed by the force of gravity that they behave like liquid metals in the ocean surrounding Jupiter's rocky core.


Pluto's orbit.
Jupiter. Pioneer 10 fly-by; December 4, 1973.
Pioneer 10
Earth. Viking 1 launch; August 20, 1975.
Earth. Voyager 2 launch; August 20, 1977.
Jupiter. Pioneer 11 fly-by; December 3, 1974.
Earth. Voyager 1 launch; September 5, 1977.
Earth. Viking 2 launch; September 9, 1975.
Venus. Venera 9 landing; October 22, 1975.
Earth. Mariner 10 launch; November 3, 1973.

PROBING THE PLANETS
In this chart of the solar system, the paths of the interplanetary space probes are plotted against the orbits of the planets themselves. Scientists time the launch of the probe to minimize the distance it will have to travel in order to fly by its moving target.



SATURN

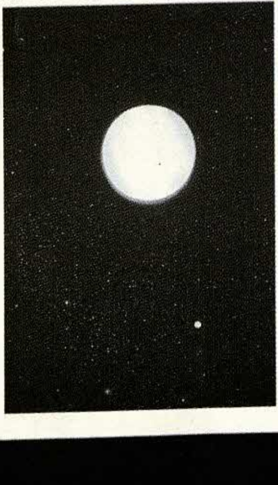


Like Jupiter, Saturn is a globe of gases rotating so fast that it is flattened at the poles and bulging in the middle. As Voyager 1 confirmed, winds 10 times faster than the most vicious hurricane ever experienced on earth race round its equator. The most dramatic revelation about the planet, however, was transmitted by cameras on board Voyager 2. Photographs showed that Saturn's exquisite set of rings consisted of tens of thousands of ringlets. Scientists realized that this observation could teach them more about the universe. For the ringlets are streams of icy particles that, stirred by the effect of gravity into spirals, resemble on a minute scale the spiral patterns of our galaxy; and the way in which the particles crash together and coalesce may be a model of the early solar system itself.

URANUS

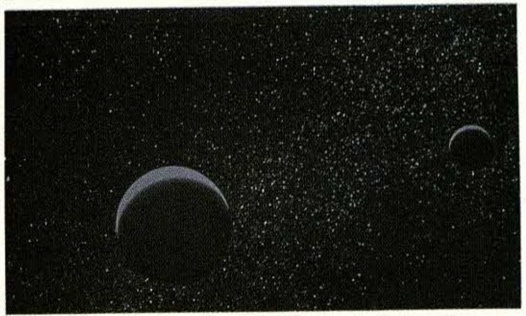
When the launch of Voyager 2 was being planned, scientists had no idea that Uranus had a distinctive set of thin black rings. After their discovery in 1977 they became, along with the planet's moons, targets for inspection. As Voyager 2 approached the planet, the number of Uranus's known moons trebled to 15. Then, on January 24, 1986, the space probe hurtled past at 40,000 miles (64,000 km) per hour. It had about six hours to take the only close-ups of Uranus that we are likely to see this century.

NEPTUNE



The discovery of Neptune in 1846 was a testimony to the fact that the laws of physics rule the skies. Its position in the solar system had been predicted purely through mathematical calculations. Little is known about the planet, although it may consist of a rocky core, surrounded by a deep ocean and swathed in clouds of frozen methane. Voyager 2 will swing past Neptune on August 24, 1989.

PLUTO



When astronomers realized that the perturbations in Uranus's orbit could not be explained by the effect of Neptune's gravity alone, they began searching for a ninth planet. In 1930, after years of painstaking observation, the American astronomer Clyde Tombaugh detected the smallest planet, Pluto. No probes are planned to investigate the planet or its moon, Charon (right), which was not discovered until 1978. We will have to rely on measurements from earth and on our imaginations to re-create conditions on this frozen, cratered world with its shimmering veil of methane ice.

The Moon: A Fossil Planet

Unlike the earth — a dynamic planet where weather has eroded the shifting surface and erased the record of early history — the moon has hardly changed. Its main features have been fossilized in time. Its gravitational force — only a sixth of that of the earth — is not great enough to grasp or retain an atmosphere. As a result, there is no water, no weather, and no wind.

Until recently three competing theories attempted to explain the origin of the moon, some 4.5 billion years ago. The "fission" theory claimed that the early earth was rotating so fast that a chunk of it broke away and was flung out into space to form the moon — leaving, it was even suggested, a scar on the earth's surface in the form of the Pacific Ocean. The "double planet" theory contended that the twin bodies of earth and moon formed independently from the same primordial cloud of dust and gas. And the "capture" theory proposed that the moon formed elsewhere in the solar system and was pulled into orbit by the earth's gravity as it flew past the earth. None of these theories, however, was confirmed by the Apollo missions of the late 1960's and early 1970's. The Apollo findings showed that the chemical compositions of earth and moon are very different — that, for example, there is little or no iron, water, or sodium on the moon. These discoveries raised more questions than they answered.

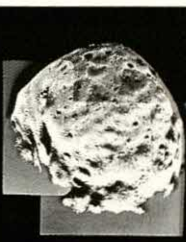
Over the past few years a fourth theory, which has been tested by computer simulations, has been gaining strong support from scientists. The "giant impact" theory argues that the moon was created when a planetary body collided with the early earth. In the crush, hot jets of vapor were blasted into space, where they cooled, coalesced, and eventually condensed into a "protomoon." Iron from the two bodies stayed within the earth, and volatile materials, such as water and sodium, simply boiled away.

Soil samples collected by the Apollo astronauts record subsequent phases of the moon's development. The highlands were the first areas to form as the lighter materials in the interior of the molten moon floated like scum to the surface, where they cooled to form a primitive crust. Giant meteorites bombarded the moon, scarring the highlands and blasting out great basins in the surface. Although they are waterless, these basins reminded the early astronomers of oceans, and each of them is still known by the Latin word for sea, *mare.* Between 3.9 and 3.2 billion years ago, lava welled up from the interior of the moon. These volcanic outpourings flooded the basins and filled them with layers of dark basaltic material that then solidified into the gray plains of today. Even after the volcanic activity had died down, meteorites continued to pound and remodel the surface.

MOONS OF THE SOLAR SYSTEM

Our moon, which has often been described as a sister planet to the earth, is just one of more than 50 planetary satellites in the solar system. It is the sixth largest.

All of the planets, with the exception of Mercury and Venus, have moons revolving around them. The investigation of these satellites has been one of the most interesting features of the space probes in the past few years. This collage of recent photographs examines a selection of other moons and compares them with our own.



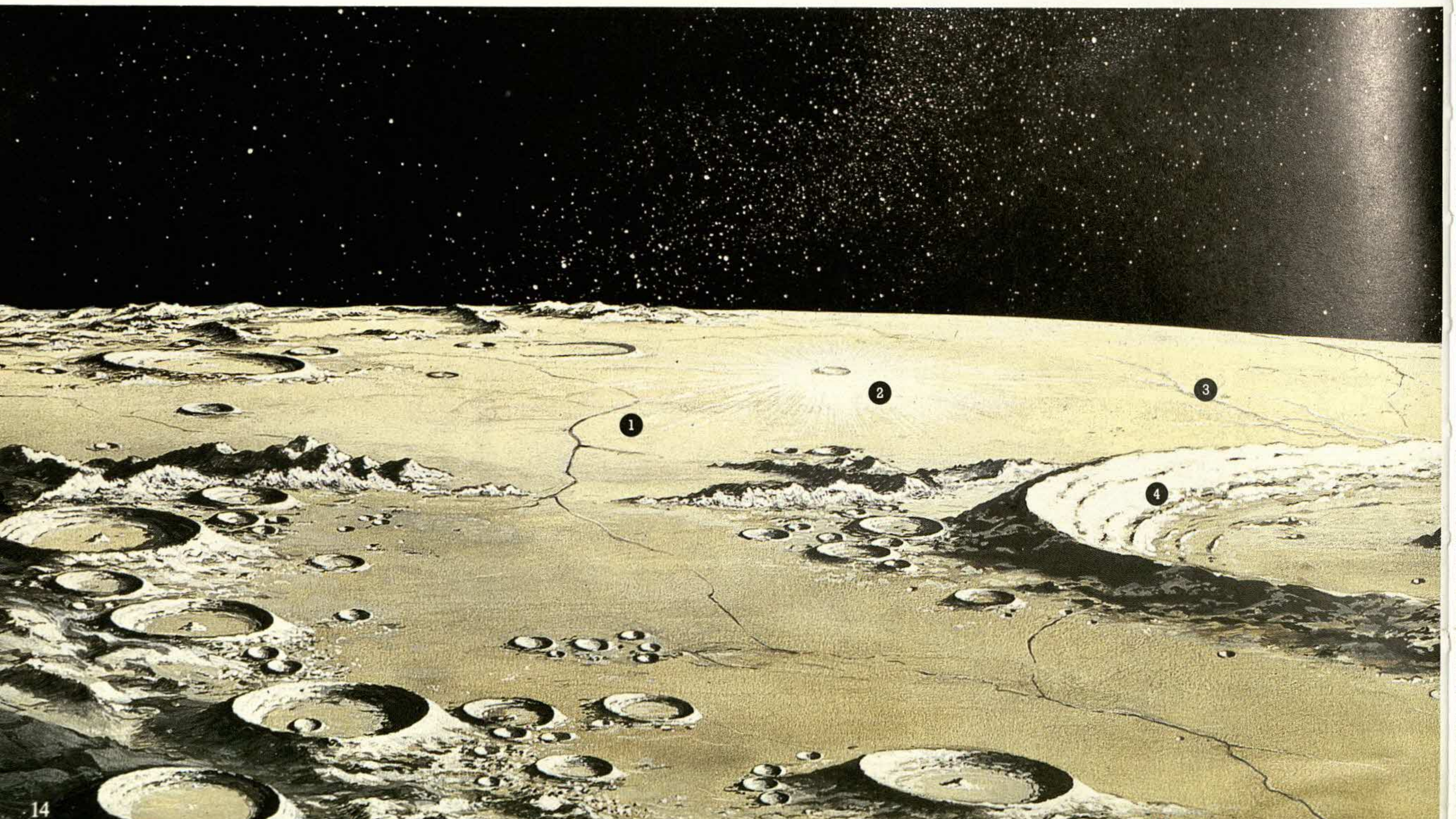
PHOBOS 14 miles (22 km) in diameter. It is shown here in a mosaic of images taken by Viking 1.

DEIMOS 8 miles (13 km) in diameter.

PHOBOS AND DEIMOS The cratered surfaces of Phobos and Deimos are dark gray. Like our own moon, they are dusted with a loose coating of pulverized rock known as the regolith.

OUR MOON. 2,160 miles (3,476 km) in diameter. Since our moon takes the same time to rotate on its axis as it does to orbit the earth, the same hemisphere is always facing earth. With the naked eye it is possible to distinguish the dark, waterless seas, such as the Mare Imbrium, and the bays, such as the Sinus Roris, from the brighter highlands around them.

IO. 2,255 miles (3,632 km) in diameter. Although Jupiter's Io was discovered by the Italian astronomer Galileo in 1610, little was known about it until the Voyager fly-bys in 1979. Vividly colored photographs revealed that it is the only body in the solar system, other than the earth, known to be volcanically active today.

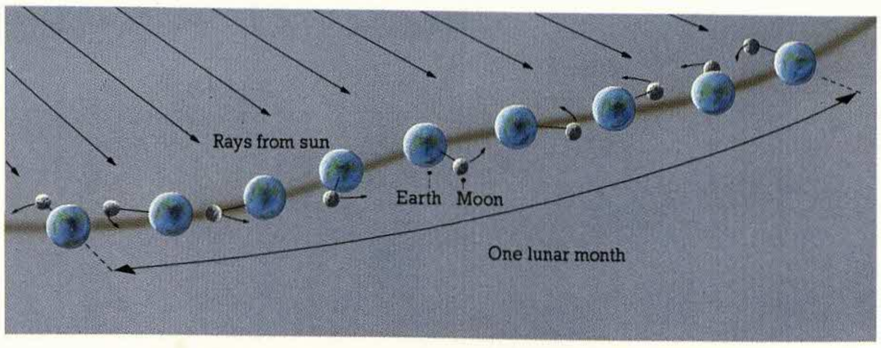


WALTZING WITH THE MOON

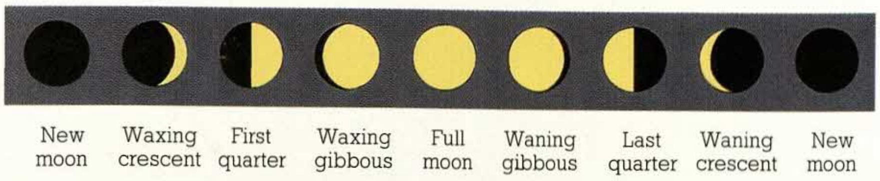
The moon's gravity causes our planet to wobble slightly in its elliptical path around the sun. In gravitational terms, earth and moon operate as a single mass, whose center of gravity still lies within the earth, but well out from the center. The two bodies weave about each other in their orbit, like partners waltzing around a ballroom.

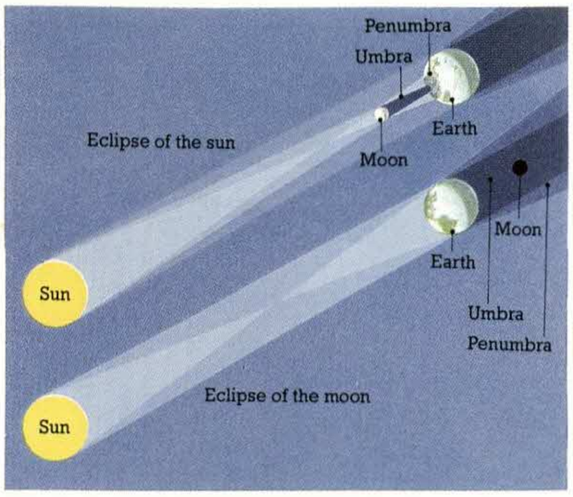
The moon has no light of its own and shines only by the light it reflects, mostly from the sun. Its phases are simply what we on earth can see of this reflected sunlight at different times during its orbit. When the new moon lies between the earth and the sun, no sunlight falls on the side of the moon facing the earth. It is dark and invisible. As it proceeds along its orbit of the earth, a growing or waxing crescent of reflected sunlight illuminates its eastern edge. At the first quarter, just over a week after the new moon, half of the moon's illuminated hemisphere is visible from the earth. This portion waxes, or grows, until the moon's face is fully illuminated. It now begins to wane, going through its phases in reverse. By the end of the lunar month, the moon is back in its original position relative to the earth and the sun.

If, at new moon, the plane of the moon's orbit crosses the plane of the earth's orbit around the sun, the long, cone-shaped shadow cast by the moon plunges an area of the earth into the darkness of a total solar eclipse. However, because both earth and moon are constantly on the move, this phenomenon never lasts longer than seven minutes in any one place. Surrounding areas escape the dark shadow, or umbra, and fall within the moon's lighter shadow, or penumbra, witnessing only a partial eclipse. If, at full moon, the sun, the earth, and the moon are aligned in exactly the same plane, there is a lunar eclipse. As the moon passes through the earth's shadow, it disappears from sight.



PHASES OF THE MOON. The moon completes one cycle of phases every lunar month, or 29.5 days.





SHADOWS IN SPACE. The moon's shadow on earth causes a solar eclipse; earth's shadow on the moon a lunar eclipse.

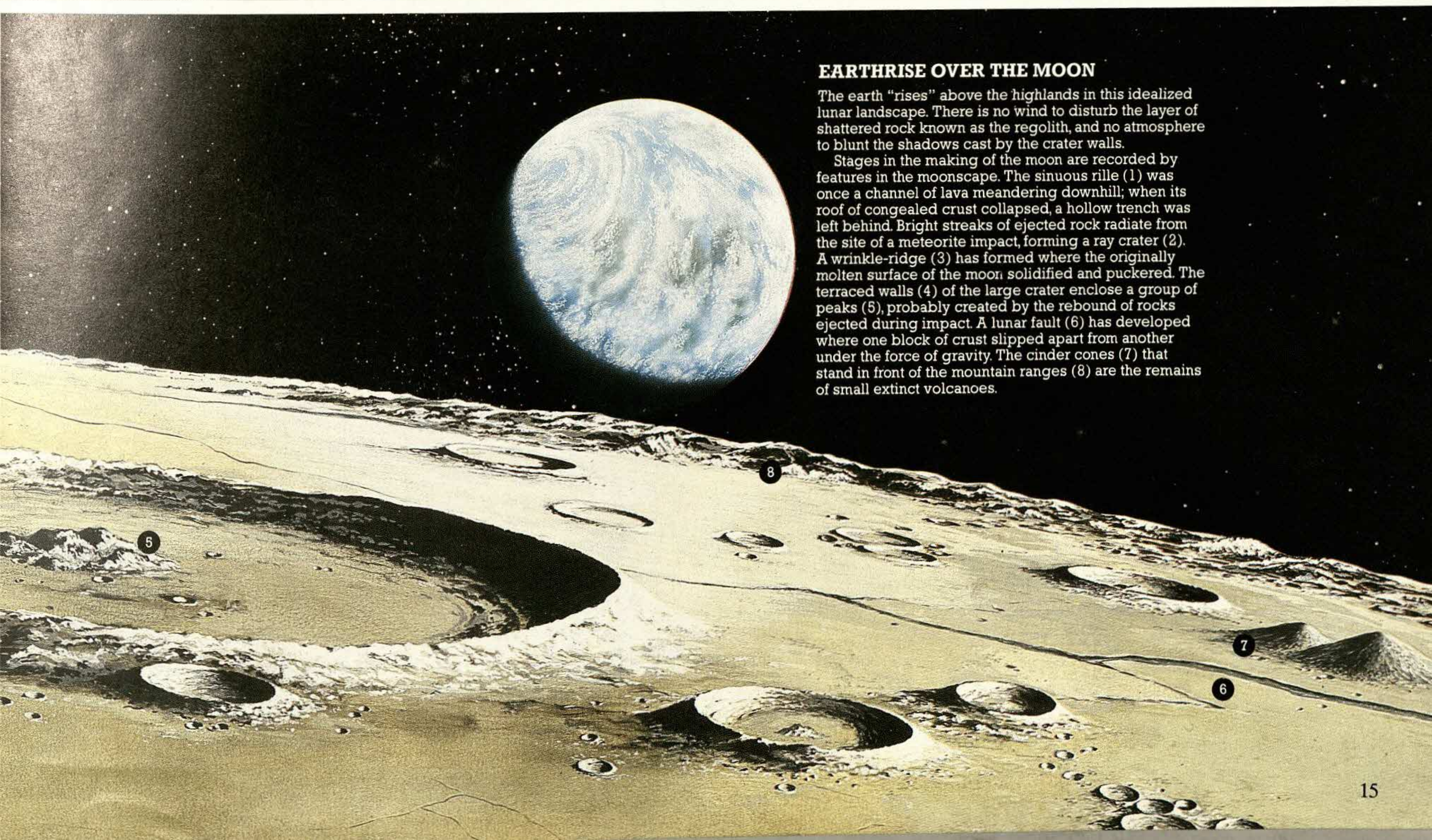
GANYMEDE. 3,276 miles (5,276 km) in diameter. About 1½ times the size of our moon, Jupiter's Ganymede is the largest moon in the solar system. The dark areas of its icy surface are separated by bands of younger, lighter terrain. The bright spots mark the sites of craters.

TITAN. 3,200 miles (5,150 km) in diameter. Saturn's largest satellite is similar in many ways to the inner, or terrestrial, planets. For example, it has a rocky core and an atmosphere (though with a pressure 10 times greater than the earth's). Its surface features are hidden by orange clouds that are fringed by layers of blue haze.

MIRANDA. 300 miles (480 km) in diameter.

OBERON. 1,000 miles (1,600 km) in diameter.

OBERON AND MIRANDA. Even more surprising than the discovery of Uranus's new moons by Voyager 2 were the pictures taken of its five known moons, Oberon, Titania, Umbriel, Ariel, and Miranda. The last turned out to be a geological oddity. In this part-image taken by Voyager 2, Miranda is clearly misshapen, gouged by craters and valleys, and riven by great faults and jagged ridges. Although Miranda is more than 20 times smaller than the earth, some of its cliffs are 3 miles (5 km) tall – over 3 times higher than the walls of the Grand Canyon.



EARTHRISE OVER THE MOON

The earth "rises" above the highlands in this idealized lunar landscape. There is no wind to disturb the layer of shattered rock known as the regolith, and no atmosphere to blunt the shadows cast by the crater walls.

Stages in the making of the moon are recorded by features in the moonscape. The sinuous rille (1) was once a channel of lava meandering downhill; when its roof of congealed crust collapsed, a hollow trench was left behind. Bright streaks of ejected rock radiate from the site of a meteorite impact, forming a ray crater (2). A wrinkle-ridge (3) has formed where the originally molten surface of the moon solidified and puckered. The terraced walls (4) of the large crater enclose a group of peaks (5), probably created by the rebound of rocks ejected during impact. A lunar fault (6) has developed where one block of crust slipped apart from another under the force of gravity. The cinder cones (7) that stand in front of the mountain ranges (8) are the remains of small extinct volcanoes.

The Making of the Earth

We know little about the very earliest days of the earth. During the 4.6 billion years of its existence, the continents have shifted continually, many of the oldest rocks have disintegrated, and rivers have moved whole mountain ranges into the sea. Much of the record has been wiped clean.

Scientists have attempted to reconstruct the way in which the primeval cloud of dust and gas, from which the solar system is formed, evolved into the earth of today. Under the influence of gravity, the original mixture of elements in the churning cauldron of the early earth separated into different layers. Heavy materials sank to the core, lighter materials rose upward, and the lightest of all were expelled as gases to form the first atmosphere. The conditions that prevailed at certain stages in this evolution are recorded in the rocks that were created at the time. The fossilized remains of living organisms act as markers of the successive ages of geological time.

The interior structure of today's earth is revealed by seismology, the study of shock waves as they pulse through the different layers of the planet: core, mantle, and crust. Other techniques that help us to understand the interior of our planet include drilling into the upper crust, and the study of fragments of the upper mantle and lower crust that are forced to the surface during the great upheavals that produce mountain belts.

4. THE FIRST SPARKS OF LIFE (3.8–2.5 BILLION YEARS AGO).

The gases that billowed out of the hot interior contained water that had been locked up in minerals. These gases cooled and condensed into clouds that blanketed the earth. In massive thunderstorms, rain poured down to fill the early oceans. Lightning discharges from the violent electric storms forged the elements within the primitive atmosphere and ocean into more complex molecules. By now the crust was thick enough in places to withstand the meteorites. The first streams and rivers appeared, eroding the volcanic rocks and laying down sand and mud as the first sedimentary layers on the sea floors. As the rains fell, they washed down the molecules that were to form the basic building blocks of life. The first organisms, blue-green algae, were able to trap the energy from sunlight in a process known as photosynthesis. They used this energy to convert carbon dioxide from the sea water into carbon for food and oxygen, which was then expelled as a waste product.

5. THE AIR THAT WE BREATHE (2.5 BILLION–600 MILLION YEARS AGO).

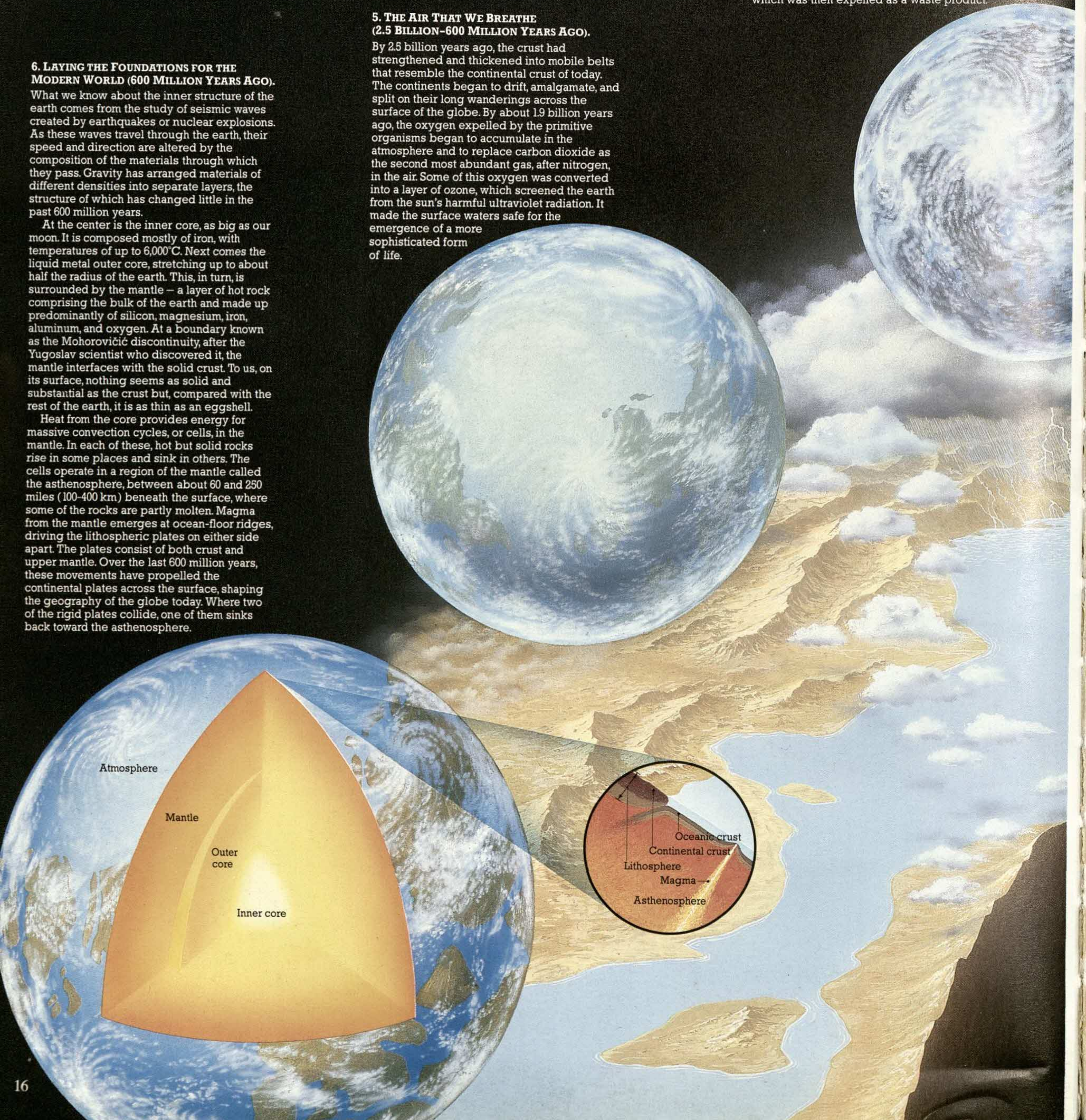
By 2.5 billion years ago, the crust had strengthened and thickened into mobile belts that resemble the continental crust of today. The continents began to drift, amalgamate, and split on their long wanderings across the surface of the globe. By about 1.9 billion years ago, the oxygen expelled by the primitive organisms began to accumulate in the atmosphere and to replace carbon dioxide as the second most abundant gas, after nitrogen, in the air. Some of this oxygen was converted into a layer of ozone, which screened the earth from the sun's harmful ultraviolet radiation. It made the surface waters safe for the emergence of a more sophisticated form of life.

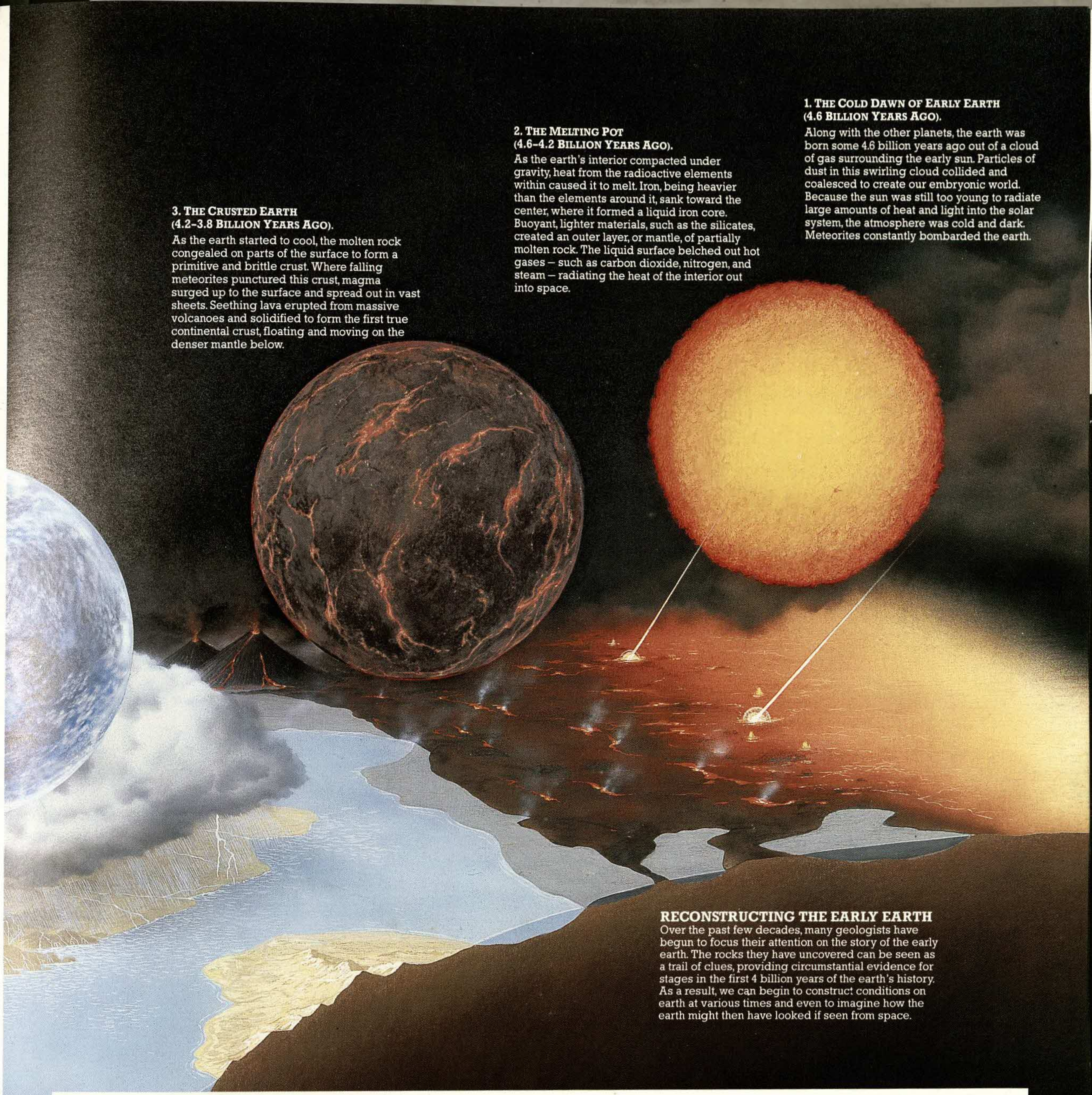
6. LAYING THE FOUNDATIONS FOR THE MODERN WORLD (600 MILLION YEARS AGO).

What we know about the inner structure of the earth comes from the study of seismic waves created by earthquakes or nuclear explosions. As these waves travel through the earth, their speed and direction are altered by the composition of the materials through which they pass. Gravity has arranged materials of different densities into separate layers, the structure of which has changed little in the past 600 million years.

At the center is the inner core, as big as our moon. It is composed mostly of iron, with temperatures of up to 6,000°C. Next comes the liquid metal outer core, stretching up to about half the radius of the earth. This, in turn, is surrounded by the mantle – a layer of hot rock comprising the bulk of the earth and made up predominantly of silicon, magnesium, iron, aluminum, and oxygen. At a boundary known as the Mohorovičić discontinuity, after the Yugoslav scientist who discovered it, the mantle interfaces with the solid crust. To us, on its surface, nothing seems as solid and substantial as the crust but, compared with the rest of the earth, it is as thin as an eggshell.

Heat from the core provides energy for massive convection cycles, or cells, in the mantle. In each of these, hot but solid rocks rise in some places and sink in others. The cells operate in a region of the mantle called the asthenosphere, between about 60 and 250 miles (100-400 km) beneath the surface, where some of the rocks are partly molten. Magma from the mantle emerges at ocean-floor ridges, driving the lithospheric plates on either side apart. The plates consist of both crust and upper mantle. Over the last 600 million years, these movements have propelled the continental plates across the surface, shaping the geography of the globe today. Where two of the rigid plates collide, one of them sinks back toward the asthenosphere.





1. THE COLD DAWN OF EARLY EARTH (4.6 BILLION YEARS AGO).
Along with the other planets, the earth was born some 4.6 billion years ago out of a cloud of gas surrounding the early sun. Particles of dust in this swirling cloud collided and coalesced to create our embryonic world. Because the sun was still too young to radiate large amounts of heat and light into the solar system, the atmosphere was cold and dark. Meteorites constantly bombarded the earth.

2. THE MELTING POT (4.6–4.2 BILLION YEARS AGO).
As the earth's interior compacted under gravity, heat from the radioactive elements within caused it to melt. Iron, being heavier than the elements around it, sank toward the center, where it formed a liquid iron core. Buoyant, lighter materials, such as the silicates, created an outer layer, or mantle, of partially molten rock. The liquid surface belched out hot gases – such as carbon dioxide, nitrogen, and steam – radiating the heat of the interior out into space.

3. THE CRUSTED EARTH (4.2–3.8 BILLION YEARS AGO).
As the earth started to cool, the molten rock congealed on parts of the surface to form a primitive and brittle crust. Where falling meteorites punctured this crust, magma surged up to the surface and spread out in vast sheets. Seething lava erupted from massive volcanoes and solidified to form the first true continental crust, floating and moving on the denser mantle below.

RECONSTRUCTING THE EARLY EARTH

Over the past few decades, many geologists have begun to focus their attention on the story of the early earth. The rocks they have uncovered can be seen as a trail of clues, providing circumstantial evidence for stages in the first 4 billion years of the earth's history. As a result, we can begin to construct conditions on earth at various times and even to imagine how the earth might then have looked if seen from space.

MILESTONES IN EARTH HISTORY

Evidence for the formation of the earth's crust comes from the world's oldest known rocks — gneiss (granite that has been twisted under great pressure and heated to great temperatures). Such rocks have been found in Greenland and date from over 3.8 billion years ago (see THE CRUSTED EARTH).

The existence of sedimentary rocks, some 3.8 billion years old in Greenland and some 3.5 billion years old in southern Africa, indicates that the great rains, which weathered the rocks and washed many layers of sediment onto the ocean floors, had begun. Some microorganisms more than 3.5 billion years old, which have been found as fossils in Australia, are our earliest records of plant life. Between 3.5 and 2 billion years ago, their poisonous waste product — oxygen — was absorbed by the iron dissolved in the oceans and formed banded ironstones that are found in rocks of this age on all continents (see THE FIRST SPARKS OF LIFE). As a result, these early cells were not killed off by their own excretions.

Rusted "red beds" of rock, some 2 billion years old, in southern Africa mark the appearance of free oxygen in the atmosphere, as surface materials began to oxidize too.

Fossil evidence from southern California dates the first microorganisms capable of sexual reproduction at around 1.3 billion years, and evidence from Australia dates the first multicellular organisms, such as early sponges, at around 700 million years old.

ANCIENT AND MODERN. Fossil remains, found in Western Australia, of oxygen-producing microorganisms, some 3.5 billion years old (left), are similar to some of the blue-green algae found in Baja California today (right).

ARCHAEAN GNEISS. These 3 billion-year-old outcrops of granitic rock, or gneiss, in west Greenland date from a period in geological history known as the Archaean.

Earth in Space

The earth is the ideal place to live. Its continents and islands, its oceans, lakes, and rivers, support an amazing abundance and variety of life — several million plant and animal species and man himself. How does science account for this richness?

Life as we know it — perhaps the most important criterion being the ability of the organism to reproduce itself — can evolve and flourish only under certain conditions and limitations, and according to a strict sequence of events. Our planet provides the ideal incubator and shelter.

Water is essential to life because it moderates extremes of temperature and transports nutrients to where they are needed. Among the planets of the solar system, only the earth has water available in its three forms: solid, liquid, and vapor. This global interchange system of glacier-ocean-atmosphere maintains a comfortable environment that supports life-forms from the polar bear to the tropical orchid. Earth is close enough to its shepherding star, the sun, to receive warmth, light, and energy, and far enough away not to burn up.

EARTH'S RADIATION SHIELD

The great magnet in the earth's core wraps the planet in a vast curved envelope of magnetic force. This protective cocoon, the magnetosphere, wards off the lethal stream of ionized, or electrically charged, particles blown off the sun.

As the earth and its magnetic field plow through this solar wind, a shock wave builds up in front of them, just like the shock wave that precedes a supersonic jet. The charged particles are slowed down and diverted around the magnetosphere. On the sunward side of the earth, they compress the magnetopause, the boundary of the magnetosphere; but on the other side, they stretch it out in a teardrop-shaped tail up to 500 earth diameters long. Although most particles are deflected around the magnetosphere, some are trapped and concentrated in the two doughnut-shaped rings within, known as the Van Allen radiation belts after the U.S. scientist Dr. J.A. Van Allen, who discovered them.

The solar wind varies in its strength, however. During violent eruptions on the sun's surface, bursts of high-speed particles surge through the solar wind. Some of these may reach the earth within a couple

THE NECESSITIES FOR LIFE

The evolution of earth from cold stellar debris to spinning dynamo and the gradual build-up of a protective atmosphere may be unique in the universe. No other planet in the solar system, at least, shows any sign of life. Only two of the known planetary satellites — Jupiter's Europa and Saturn's Titan — hold any hope of meeting the prerequisites of producing and sustaining life.

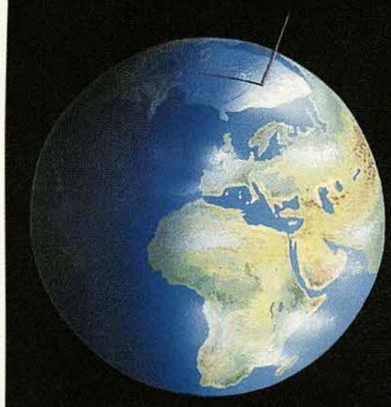
Of the four building blocks for life, hydrogen was created in the first second of the universe; carbon, nitrogen, and oxygen were fused in the great nuclear core of a massive star that exploded before our sun was formed. It was the energy of our sun, however, that forged these elements into the complex molecules from which life developed. But, as well as being a giver of life, the sun can also be deadly, and the earth requires protection from its lethal rays.

	Mercury	Venus	Earth	Moon	Mars	Europa	Titan
Structural building blocks, such as carbon, hydrogen, nitrogen, and oxygen.		√	√		√	?	√
A liquid medium, such as water, with a large temperature range for chemical interactions.			√			?	?
An appropriate temperature range to support life-sustaining chemical reactions and to permit bonding and breakdown of molecules.			√			?	
A source of energy to spark life, aid growth, and provide food and warmth.	√	√	√	√	√	√	√
Protection from harmful cosmic radiation.		√	√			?	?

THE EARTH'S JOURNEY THROUGH THE YEAR

The seasons are caused by the fact that the earth's axis is not perpendicular to the plane of its orbit but tilted at an angle of 23.5°. At the summer solstice, the North Pole is tilted toward the sun. The sun's rays hit the Tropic of Cancer (23.5°N) directly, warming the northern hemisphere more than the southern hemisphere. At the winter solstice, the positions are reversed. The South Pole is tilted toward the sun, and the sun's rays are concentrated over the Tropic of Capricorn (23.5°S) and spread more thinly over the northern hemisphere. At the two equinoxes, the earth is tilted neither toward nor away from the sun.

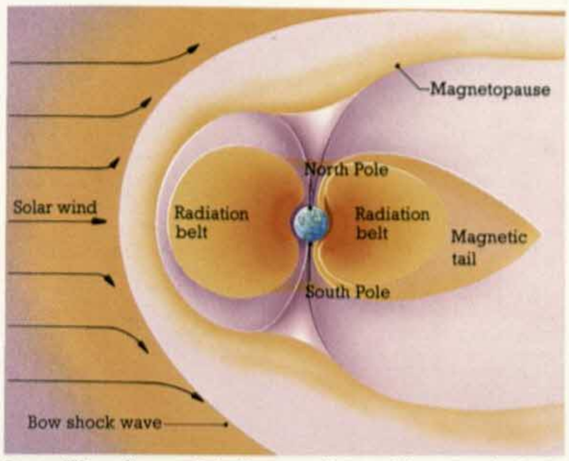
VERNAL EQUINOX
On or around March 21 in the northern hemisphere, the vernal equinox signals the beginning of spring.



LIFE-SUPPORT SYSTEM
Scientists have determined that, within the solar system, the basic life-support zone stretches some 80 million miles (130 million km), with earth near its center. Although Venus is on its inner edge and Mars on its outer, both planets are lifeless.

SUMMER SOLSTICE
On or around June 22, the northern hemisphere has its longest day — 24 hours of light at the Arctic Circle — and the southern hemisphere its shortest. In July the earth reaches aphelion, the most distant point from the sun in its elliptical orbit. It is now over 3 million miles (5 million km) farther away than at perihelion, its nearest point, in January. This difference is minute in celestial terms and accounts for a variation in irradiation (light and heat emitted by the sun) of only about 3 percent, keeping the earth's temperature within a stable range.

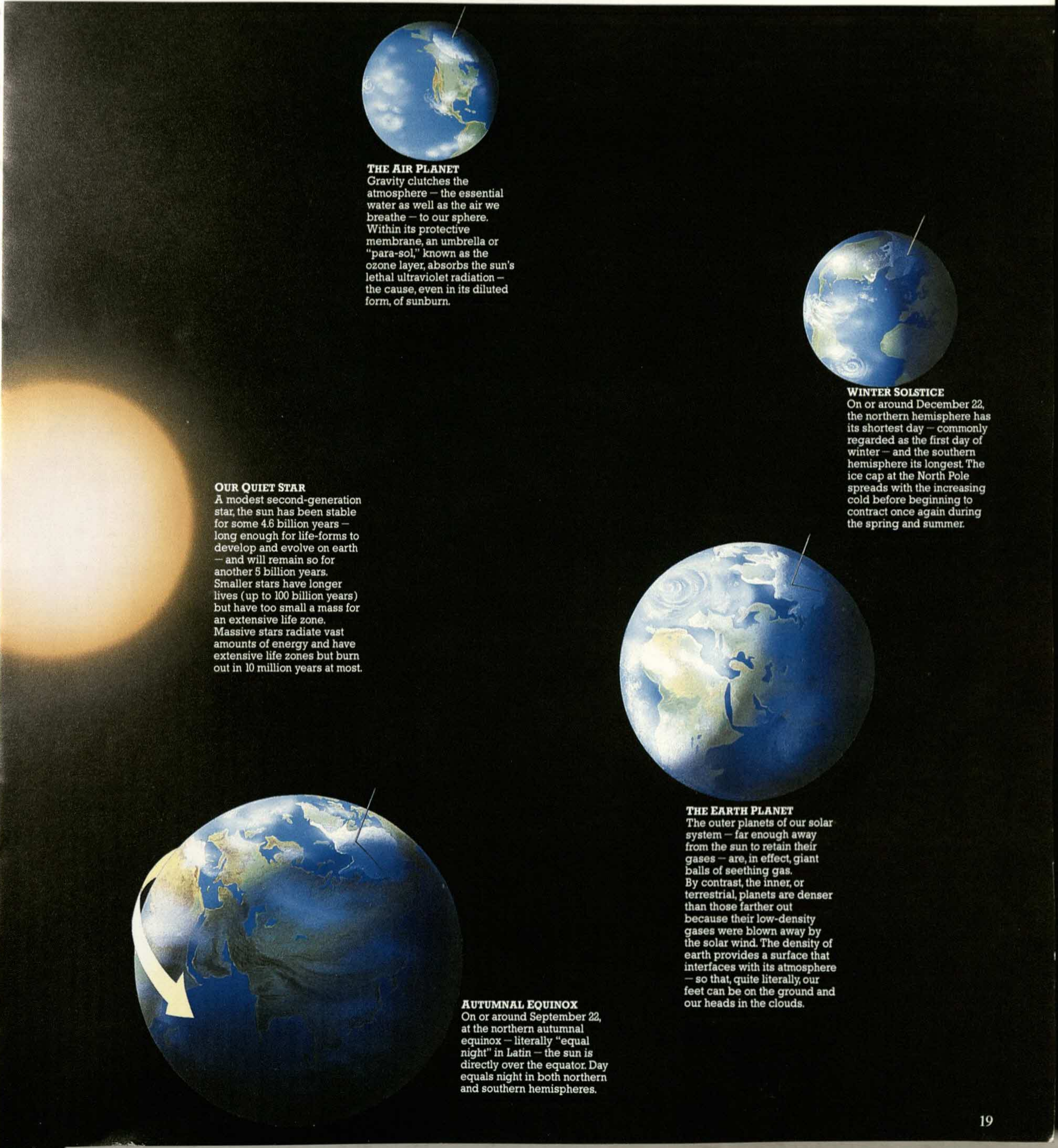
THE WATER PLANET
To a visitor from outer space, earth would appear to be the only inviting planet in our solar system. Torrid Venus is trapped beneath its cover of oppressive clouds; Mars is a rocky, red desert. Earth, described by the Apollo astronaut James Lovell as a "small oasis in the vastness of space," is the watery planet, retaining water as liquid, solid, and vapor. Almost an entire hemisphere is ocean; the globe is wreathed in clouds; ice covers both poles. With a different geological history, liquid water would never have formed; closer to the sun, it would have blown away; with a different tilt or orbit, it would have frozen.



SOLAR WIND SHIELD. A shell, created by earth's magnetic field, protects us from the stream of particles flowing from the sun.

of days and penetrate the shield. They are funneled by the earth's magnetic lines of force down into an oval area surrounding each of the poles. Here, on hitting the top of the atmosphere, they form a curtain of brightly colored lights rippling in the darkness of the night. This brilliant display is known as the aurora borealis in the northern hemisphere and the aurora australis in the southern hemisphere. It is likely that the aurora borealis — or the northern lights, as it is also known — inspired several Biblical descriptions of celestial apparitions, such as the one from the Second Book of Maccabees of "horsemen running in the air in cloth of gold."

NORTHERN LIGHTS. The bands of brightly colored lights in the night sky above Fairbanks, Alaska, are caused by high-speed solar particles entering the earth's upper atmosphere.



THE AIR PLANET
Gravity clutches the atmosphere — the essential water as well as the air we breathe — to our sphere. Within its protective membrane, an umbrella or "para-sol," known as the ozone layer, absorbs the sun's lethal ultraviolet radiation — the cause, even in its diluted form, of sunburn.

WINTER SOLSTICE
On or around December 22, the northern hemisphere has its shortest day — commonly regarded as the first day of winter — and the southern hemisphere its longest. The ice cap at the North Pole spreads with the increasing cold before beginning to contract once again during the spring and summer.

OUR QUIET STAR
A modest second-generation star, the sun has been stable for some 4.6 billion years — long enough for life-forms to develop and evolve on earth — and will remain so for another 5 billion years. Smaller stars have longer lives (up to 100 billion years) but have too small a mass for an extensive life zone. Massive stars radiate vast amounts of energy and have extensive life zones but burn out in 10 million years at most.

THE EARTH PLANET
The outer planets of our solar system — far enough away from the sun to retain their gases — are, in effect, giant balls of seething gas. By contrast, the inner, or terrestrial, planets are denser than those farther out because their low-density gases were blown away by the solar wind. The density of earth provides a surface that interfaces with its atmosphere — so that, quite literally, our feet can be on the ground and our heads in the clouds.

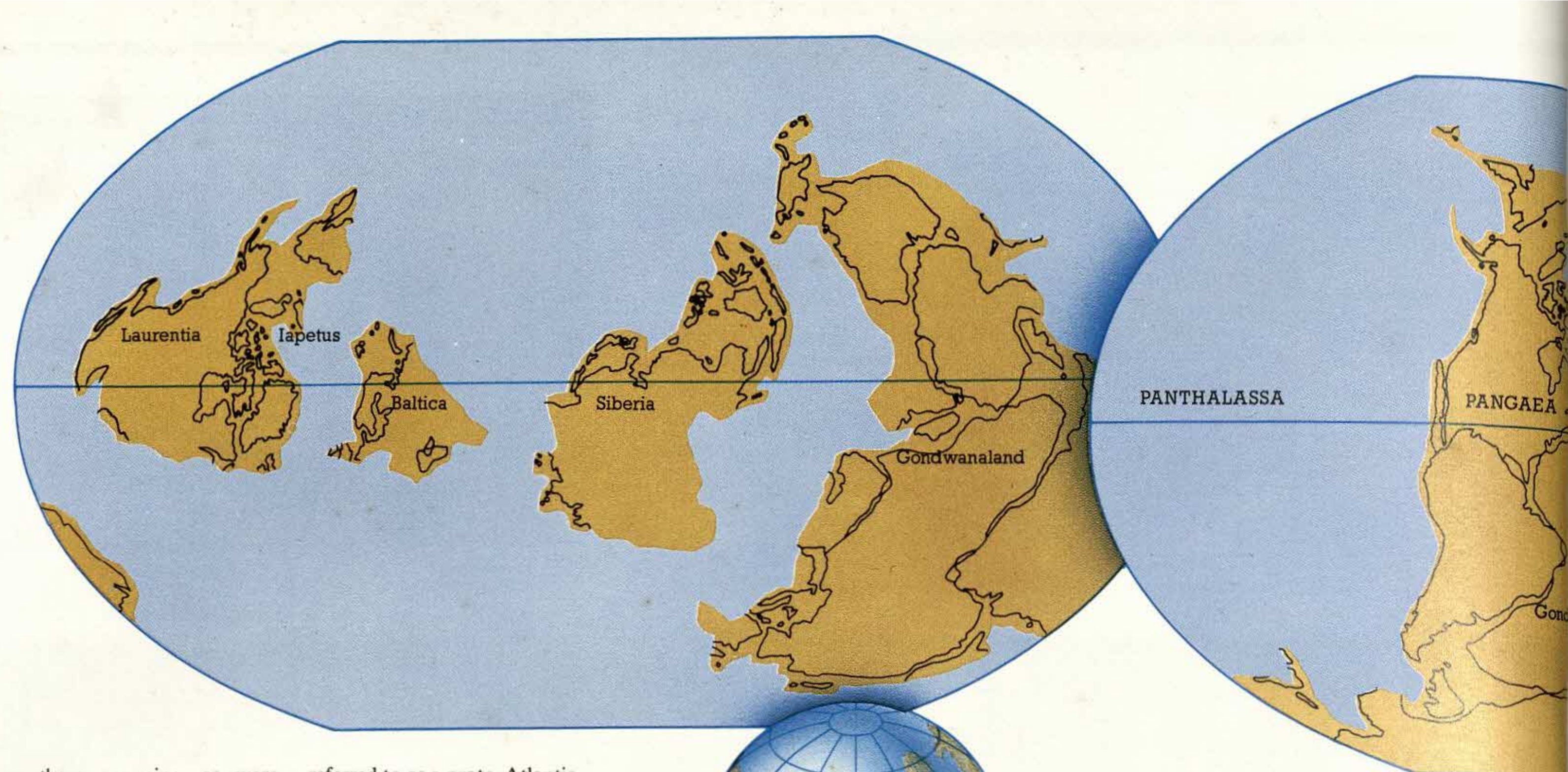
AUTUMNAL EQUINOX
On or around September 22, at the northern autumnal equinox — literally "equal night" in Latin — the sun is directly over the equator. Day equals night in both northern and southern hemispheres.

THE JIGSAW TAKES SHAPE (560 MILLION YEARS AGO)

Some 560 million years ago, the continents were barren deserts, arranged in a pattern that seems startling to the modern eye. All of the major land masses are identifiable, although many of them, including Britain, Scandinavia, Siberia, parts of Australia, and much of North America, would have been veiled by seas.

Clustered together in a single continent called Gondwanaland are the future shapes of South America, Africa, southern Europe, Antarctica, and Australasia. Notice India, too, nestling among them — not for hundreds of millions of years will the subcontinent be propelled on a collision course toward Asia. The continental shelves of the different pieces of the puzzle would have slotted together even more snugly than the coastlines themselves.

At this time Asia (Siberia) was entirely detached from the southern grouping, as were northern Europe (Baltica) and North America (Laurentia), two continents divided from one another by the so-called Iapetus Ocean. This deep water barrier has often been referred to as a proto-Atlantic, although, in fact, it bisected the Britain of today. Scotland and northern Ireland were close to North America, while southern Newfoundland was close to Europe.



The Continental Mosaic

Ancient mapmakers may have labeled dry land *terra firma*—"firm earth"—but in reality the land beneath our feet is moving. Mounted on the rocky plates of the earth's outer shell, the continents are adrift, gliding about the globe, driven and lubricated by titanic heat flows in the semi-molten mantle below.

The plates move at speeds which may seem modest enough, rarely exceeding six inches (15 cm) a year. But the results have been dramatic. Over millions of years, plates have collided head on, causing land masses to buckle and form mountain ranges. Earthquakes and volcanoes periodically devastate areas where plates grind past one another.

"Plate tectonics" is the name given to the modern theory of these massive movements. It is a relatively new field of study, which won acceptance only in the 1960's, but it incorporates earlier ideas of a so-called continental drift. You need only glance at a world map to see how neatly the eastern coast of South America might be fitted, jigsawlike, into the west coast of Africa. The English scientist and statesman Sir Francis Bacon noted the "fit" as early as 1620, though he could offer no explanation. The question continued to baffle scientists. Then, in 1912, the German meteorologist Alfred Wegener suggested that all of the present continents had at one time been joined in a single supercontinent. He called it Pangaea, from the Greek for "all lands," and proposed that its two main components — Laurasia (Europe, North America, Greenland, and Asia) and Gondwanaland (South America, Africa, India, Australasia, and Antarctica) — began to drift apart about 200 million years ago.

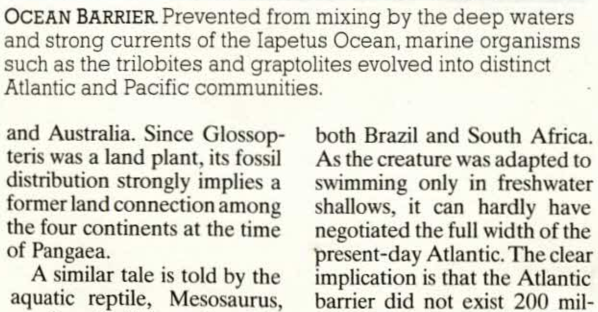
Since 1912 Wegener's theory, which initially met with derision, has been confirmed by a wealth of evidence. It now forms the basis of our understanding of the continental mosaic and has been used to produce the computer reconstructions and projections on these pages. The hemisphere beside each of the maps records how the world might have looked from space and highlights the main earth-shaping events caused by the drifting continents.

FOSSILS THAT RECORD THE DRIFTING CONTINENTS

Some of the most persuasive evidence for the theory of continental drift comes from the fossil record. Why, for example, should there have been, more than 500 million years ago, two quite separate and distinct communities of shallow-water sea creatures flourishing on the continental shelves of Europe and North America? And why, 400 million years ago, should these communities have mingled, and the differences between them begun to vanish? The most logical explanation is that during the earlier period they were kept apart by some natural barrier, such as deep sea water, but that later the barrier vanished. Following this line of reasoning, scientists believe that, more than 400 million years ago, North America collided with Europe, closing the Iapetus Ocean, so that the communities were able to mix.

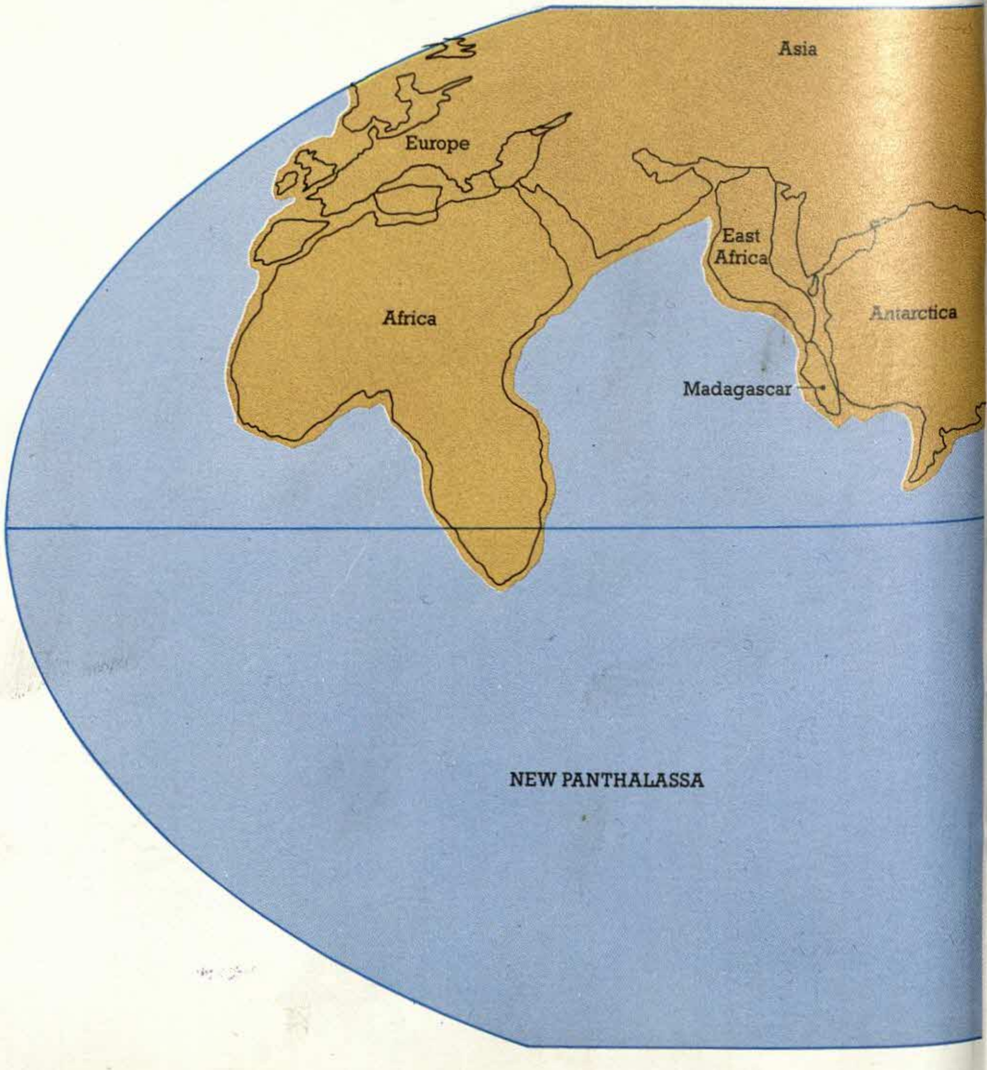
Fossils of a plant called Glossopteris, which evolved 280 million years ago and thrived in the cold conditions surrounding the south polar ice cap, have been found in South America, South Africa, India, and Australia. Since Glossopteris was a land plant, its fossil distribution strongly implies a former land connection among the four continents at the time of Pangaea.

A similar tale is told by the aquatic reptile, Mesosaurus, remains of which are found in both Brazil and South Africa. As the creature was adapted to swimming only in freshwater shallows, it can hardly have negotiated the full width of the present-day Atlantic. The clear implication is that the Atlantic barrier did not exist 200 million years ago.



OCEAN BARRIER. Prevented from mixing by the deep waters and strong currents of the Iapetus Ocean, marine organisms such as the trilobites and graptolites evolved into distinct Atlantic and Pacific communities.

MESOSAURUS. The fossil remains of Mesosaurus show a reptile 3 feet (1 m) long, with a narrow head and tail and a mouth crammed with pointed teeth.



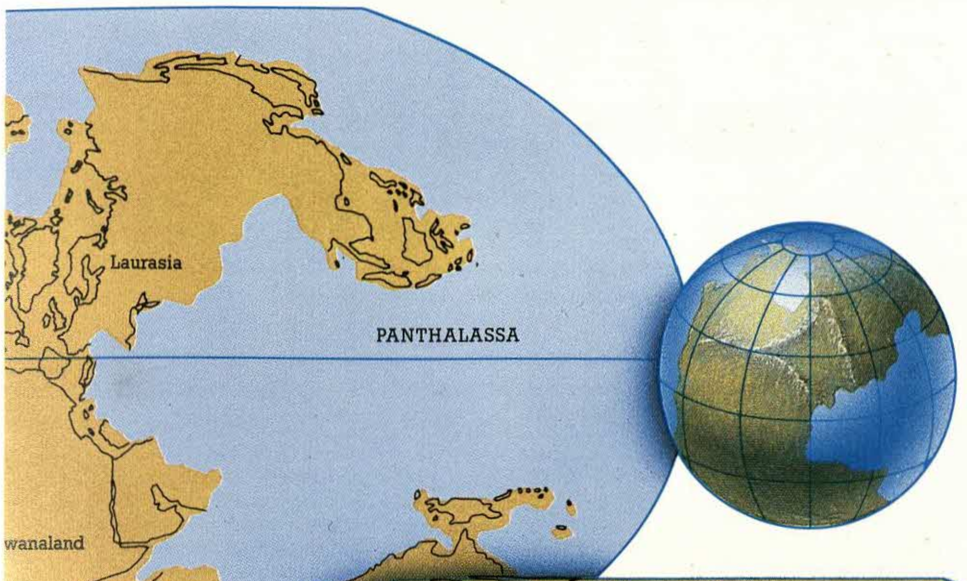
THE SUPERCONTINENT (270 MILLION YEARS AGO)

Over hundreds of millions of years, the world's land masses drifted and jostled, changing partners as they performed their extraordinary intercontinental dance. However, some 300 million years ago the shifting continents began to converge and achieve a relative stability in the arrangement known as Pangaea.

In the process, a great range of mountains was born, as North America crashed into Europe and the Iapetus Ocean was closed. These mountains stretched down the line of the present North Atlantic Ocean from Spitsbergen, Greenland, and Scandinavia in the northeast, through Newfoundland to the Appalachians in the southwest. Today's Grampian mountains in Scotland, for example, are the eroded remains of part of this chain.

As Europe bumped into Asia, the Ural mountains were pushed up. This chain, which snakes up and down the middle of Eurasia, marks the closure of the ocean that had divided Baltica from Siberia.

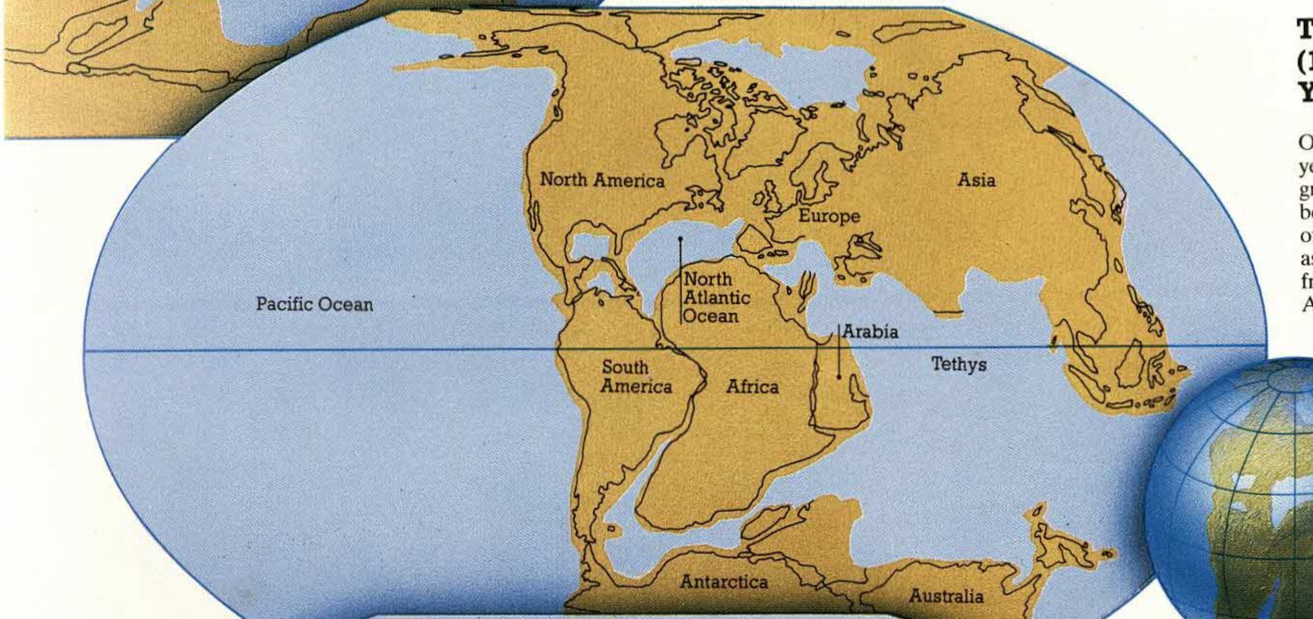
The supercontinent created a land connection between all of today's continents. Its existence prevented currents in the world ocean — Panthalassa (from the Greek for "all sea") — from circulating along the equator. Long before the emergence of Pangaea, vegetation had colonized much of the earth. Although an ice cap still covered much of Antarctica, Australasia, India, southern Africa, and South America, there were swamps and temperate forests to the north. Farther north, Europe, North America, and northern Africa were covered by extensive deserts and high plains.



THE BREAKUP (130 MILLION YEARS AGO)

Over the last 200 million years, Pangaea has disintegrated. The process, which began with the westward drift of North America, continued as South America was ripped from the coast of Africa. Among the tectonic dramas that followed, India split off from Antarctica and, mounted on its plate, hurtled north — in geological terms — toward Asia.

At the beginning of this period, the world's major oceans were the Pacific and Tethys, which stretched as a giant seaway from Spain to southeast Asia, separating Europe from Africa. However, the Indian, Atlantic, and Antarctic oceans of today began to form as the rifts that split Pangaea widened. By about 160 million years ago, new ocean floor was being generated beneath the Atlantic. Tethys, on the other hand, was squeezed by the African and Arabian plates as they swung toward southern Europe so that eventually it was closed off and formed the early Mediterranean Sea.



THE CONTINENTS TODAY

Two of the world's greatest mountain-building upheavals have happened within the last 40 million years. The Alps were formed as the African and Eurasian plates collided, and the Himalayas as India slammed into Asia.

The drift of continents continues today. Most scientists acknowledge at least 12 main plates (though some of the boundaries are uncertain) and the plate margins, or meeting points, fall into three main types: constructive, destructive, and conservative.

At constructive margins, plates are moving apart. The sea floor is spreading, allowing semi-molten rock to well up between the two diverging plates. In the mid-Atlantic, Europe and North America are being forced apart at roughly an inch (2 cm) a year.

Destructive margins occur where plates are forced together. When two continental plates collide, giant mountain ranges are thrust up. When an oceanic plate meets a continental plate, part of its load of crust is subducted, or carried down, into the mantle beneath the more buoyant continental crust. When two oceanic plates collide in this way, a volcanic island arc, such as the Marianas Islands in the Pacific, is built by molten rock rising from the subduction zone.

At conservative margins, no new crust is generated or destroyed, but there can be disastrous earthquakes. Plates grind side by side, creating a "transform fault." Most of these "side-slip" faults are to be found at sea, cutting from east to west across the mid-oceanic ridges, but occasionally they appear on land as, for example, in the San Andreas Fault in California.

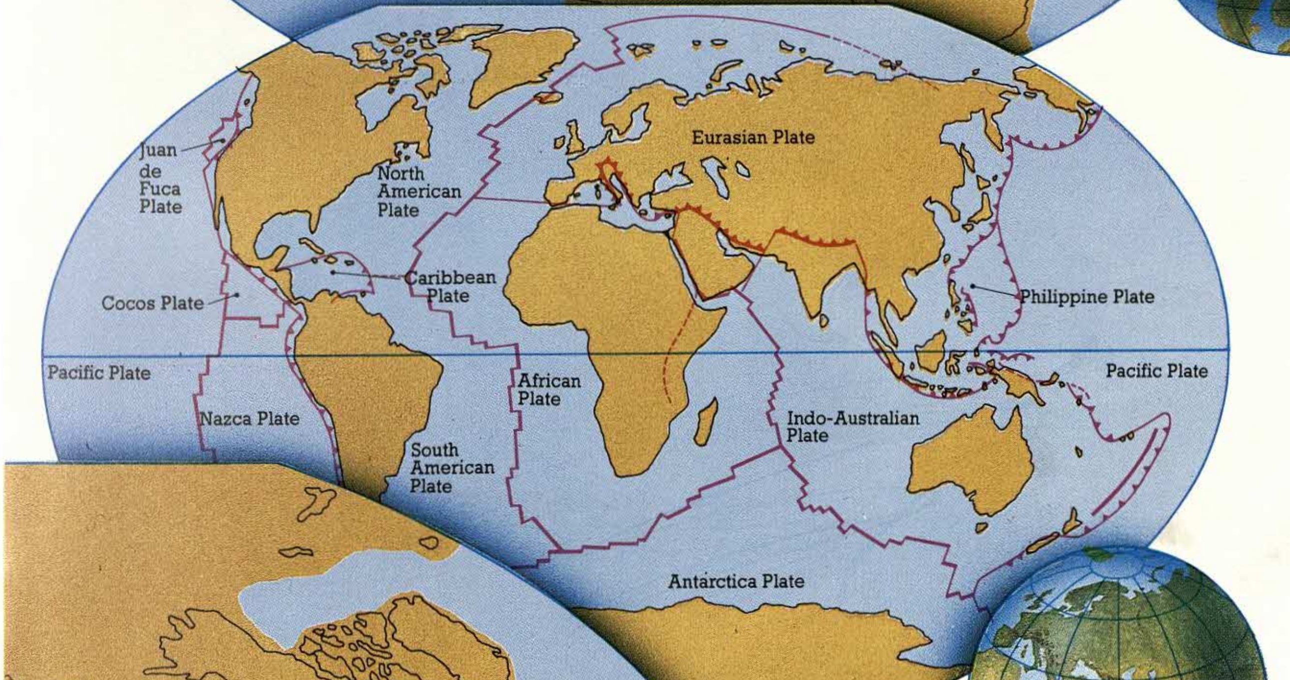


PLATE BOUNDARIES OF THE WORLD

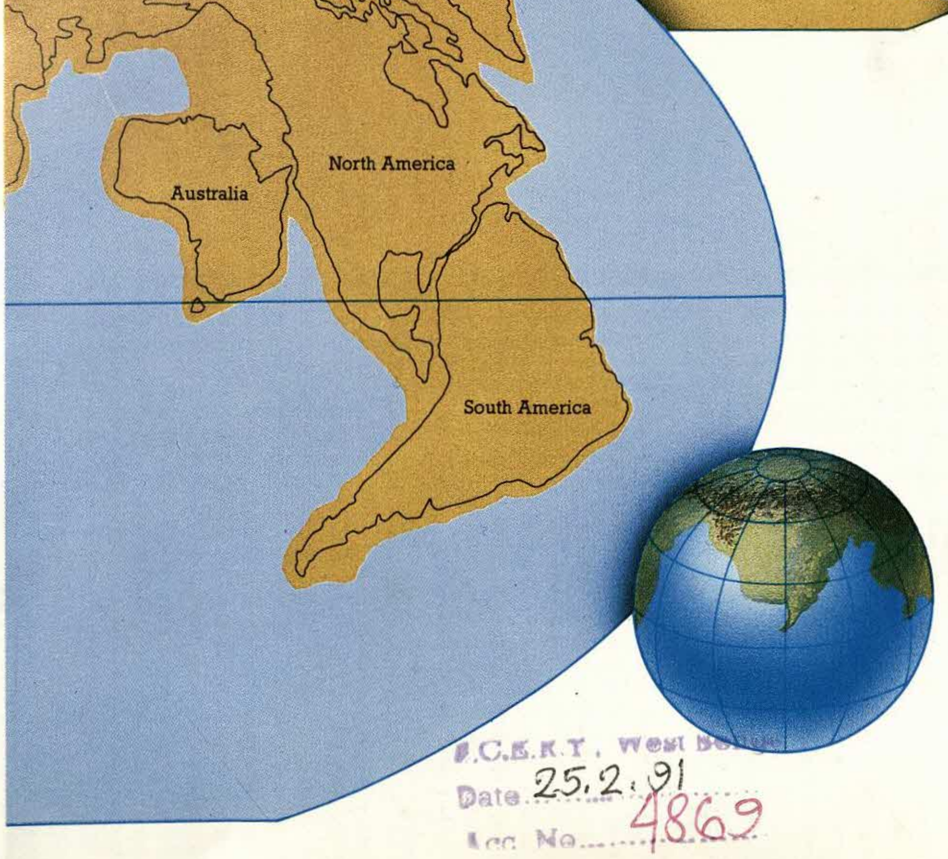
- - - - Uncertain
—— Constructive
▲▲▲ Destructive (Collision)
▲▲▲ Destructive (Subduction)
—— Conservative

TOMORROW'S WORLD (250 MILLION YEARS FROM NOW)

Even now Africa is breaking up; the Mediterranean is closing; western and eastern California are sailing past each other. The earth's tectonic processes continue inexorably, and by computer plotting from existing trends, it is possible to forecast the future.

Africa, for example, is being split along the line of the great Rift Valley. Within the next 50 million years, a long tract may be ripped from its eastern flank to become an immense offshore island. Meanwhile, the main body of Africa will converge with Europe so that the Mediterranean closes, crumples, and is uplifted to form a new mountain range. Elsewhere, Australia is in the process of colliding with Indonesia, adding an extension to the Himalayas so that a chain of mountains might well reach all the way from Spain to southeast Asia. And a sizable portion of California, carrying Los Angeles, will embark from the North American mainland and proceed northward.

This projection is based on the assumption that, as at present, the Atlantic Ocean will continue to widen. However, another long-term prediction proposes that it will start to close up again in about 100 million years, dwindling to such an extent that the Americas are brought back into union with the Old World. By 250 million years from now, it is suggested, another Pangaea will have come into being: a land mass surrounding the residue of the South Atlantic.



S.C.E.R.T., West Bengal
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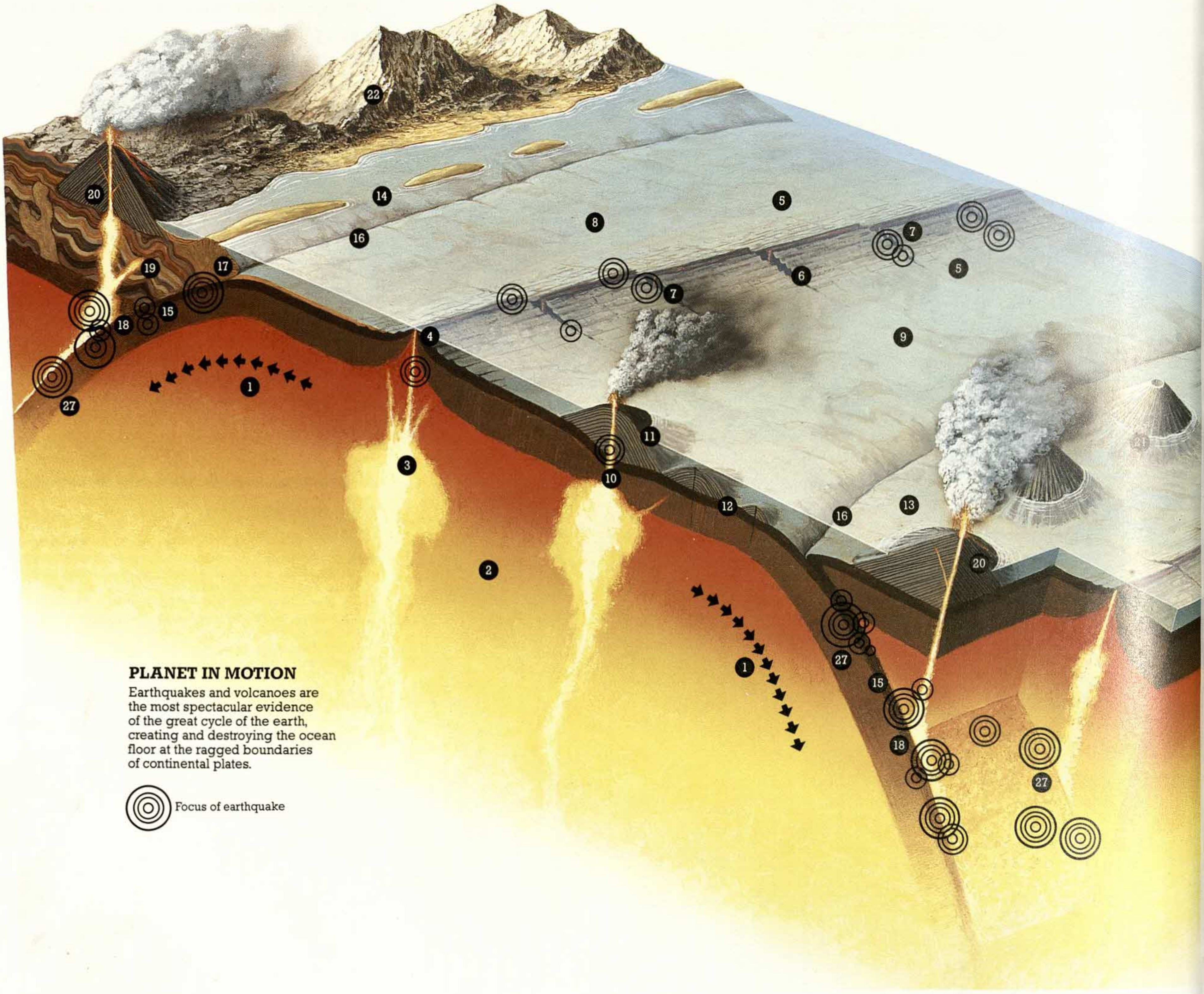
Volcanoes and Earthquakes: The Shuddering Earth

On the morning of August 27, 1883, a cataclysmic eruption blew the heart out of Krakatoa, a volcano lying in the Sunda Strait in Indonesia. The fallout of volcanic dust showered an area of 290,000 square miles (750,000 sq km) and caused an ink-black night to engulf much of the neighboring islands of Java and Sumatra. The terrific blast was heard even in central Australia 2,500 miles (4,000 km) away. And for years afterward, fine dust from Krakatoa circulated in the earth's upper atmosphere, diffusing the sun's rays so that extraordinary sunsets were seen as far away as London.

The Krakatoa detonation is just one illustration of the ferocious power pent up beneath the surface of the earth. For some time, people have known that volcanoes and earthquakes tend to occur in clearly defined belts around the world—in particular around the Pacific "Ring of Fire." However, it is only recently, with the theory of plate tectonics, that scientists have begun to understand why the earth shudders and leaks fire in these zones more than in others.



PLANET IN MOTION
Earthquakes and volcanoes are the most spectacular evidence of the great cycle of the earth, creating and destroying the ocean floor at the ragged boundaries of continental plates.

THE RESTLESS EARTH

Deep beneath the surface of the planet, the earth is in motion. Vast, slow convection currents (1), moving through the semi-molten rocks of the mantle (2), are driven by the heat coming from the earth's core. Where these currents rise toward the surface, magma (3), a hot mixture of molten rocks and gases, wells up at a mid-ocean ridge (4) and is expelled in floods of basaltic lava. Older crust (5) is pushed aside, and new oceanic crust is formed at the ridge. The old crust does not move aside easily, and deep flaws in the crust appear, called transform faults (6), the site of many shallow earthquakes (7).

The oceanic plates (8 and 9) are driven apart by the formation of the new crust. They are relatively rigid and glide along above the rocks of the upper mantle, which flows like hot toffee. Where a plate passes over a constant "hot spot" (10), molten basalt forces its way through to the surface. The lava flows out in sheets and creates a broad-based, gently sloping edifice known as a "shield volcano" (11). The passage of the plate over the hot spot leaves a trail of volcanoes (12), which one by one become extinct as they are carried away from the source of their heat and power.

Where one oceanic plate meets either another oceanic plate (13) or a continental plate (14), it sinks and is carried down into a subduction zone (15), creating a deep ocean trench (16). As the slab of ocean crust sinks under a continent, a mound of sediment is scraped off to form an "accretionary prism" (17). Sometimes the prism rises above sea level, creating offshore islands from continental debris and slices of material from the ocean floor.

As the crust is pulled down toward the heat and pressure of the mantle (18), massive earthquakes occur and, on the continent, the layers of the crust are buckled and distorted (19). The rocks of the descending plate, which carry vast amounts of seawater down with them, become partly molten and buoyant with the heat. Magma rises toward the surface, where it erupts, often explosively, in the stratovolcanoes (20) either of an island arc (21) or of the great mountain ranges on the rim of the continents (22).

The cones of these volcanoes, rising around a central vent, consist of layers of hardened lava and fallen tephra, or pulverized rock, that have been generated by repeated eruptions. A turbulent *nuée ardente* (23) — French for "glowing cloud" — sometimes accompanies the eruption. It is an incandescent cloud of gas, ash, and rock fragments. The welded rock formed from the deposits of the cloud is called an ignimbrite.

Behind the active volcanic arc, parallel lines of islands and ridges often extend toward the edge of a continent. They are formed by a process known as "back-arc spreading." The volcanic arc periodically rifts as a result of a small-scale version of sea floor spreading (24). The volcanoes nearer the continent (25) become extinct as they are pushed farther away from the active zone. The basin formed between the extinct and active volcanoes is known as a "marginal basin" (26).

Earthquakes (27) may occur anywhere above the descending plate. The farther they are from the trench, the deeper their focus. No earthquakes, however, appear to originate below depths of 430 miles (700 km), where the temperature is too high and conditions too plastic for any friction to build up.

PATTERNS OF VIOLENCE

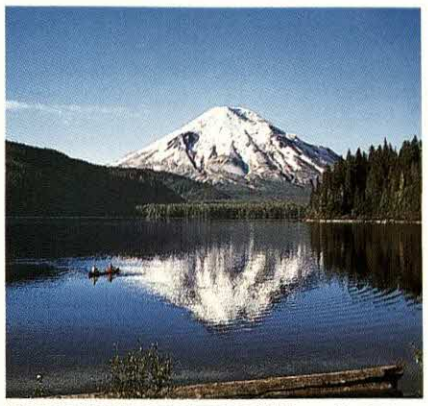
Volcanoes are among the great scene-setters of planet earth. They form majestic mountains on land and, beneath the sea, spew forth the fabric of the ocean floor. Volcanic gases are among the constituents of the earth's atmosphere, and volcanic ashes enrich its soil. Nevertheless, it is for their destructive powers that volcanoes are chiefly known. Although no two volcanoes are precisely alike, the most violent eruptions are usually produced by the strato-volcanoes found in island arcs above subduction zones. The explosive mechanism is essentially like that of a champagne bottle popping its cork. A plug of pasty lava stops the vent, so that gases build up under pressure that eventually becomes intolerable.

In trying to forecast eruptions, scientists first study a volcano's history. The existing layers of lava and tephra, for example, give clues to the strength and frequency of past explosions. For more detailed predictions, readings from a seismograph are invaluable: almost all eruptions are preceded by tremors, the earth shuddering as magma forces its way up from below. In fact, by using three seismographs it is possible to pinpoint the focus, or center, of the tremor and thereby locate the rising magma with precision.

As magma wells up from below, it can alter the gravity, magnetization, and electrical resistance of neighboring rock. Instruments can register such changes and so help in forecasting. Other apparatus includes the tiltmeter (to record changes in the slope of the volcano), and laser-ranging devices (to detect any new swelling or lumps in the cone).

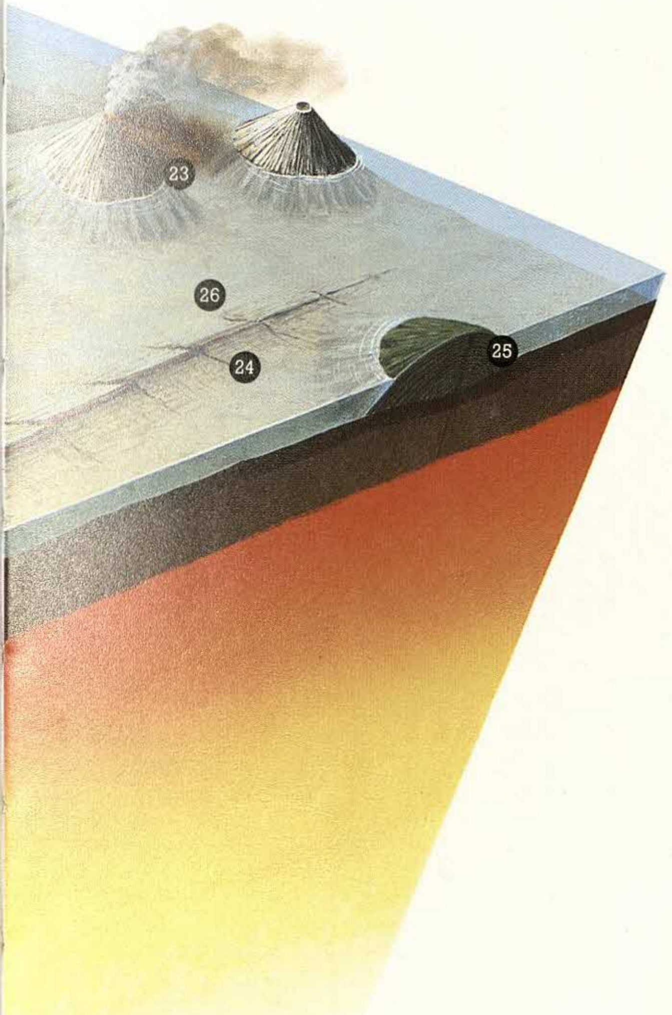
A coming eruption may be suggested also by changes recorded at local hot springs and fumaroles — small vents common in volcanic areas, which give off vapors and gases. Here, rising temperatures and changes in gas content, especially increases in sulfur dioxide and hydrogen sulfide, are warning signs. Finally, scientists may make use of satellites orbiting the globe. Infrared radiation emitted by rising magma is revealed on their scanners.

One of the most thoroughly studied detonations of recent times was the eruption on May 18, 1980, of Mount St. Helens in the Cascade Mountains of Washington State. Lying on the Pacific "Ring of Fire," the volcano had been dormant since 1857. But from 3.47 p.m. on March 20, 1980, earth tremors were detected by a local seismological station. It was this advance warning that enabled the authorities to impose a 20-mile prohibited zone around the mountain, perhaps saving many lives.



MOUNT ST. HELENS BEFORE. Vulcanologists identified a mile-wide bulge on the north face of the cone as the probable site of eruption. Indeed, they even landed by helicopter on its quivering surface to take their readings.

MOUNT ST. HELENS AFTER. The anticipated cataclysm came on May 18, 1980, when an earthquake shook the bulge loose and it slumped from the summit in a giant landslide. Pulverized rock was hurled 12 miles (20 km) up into the atmosphere.



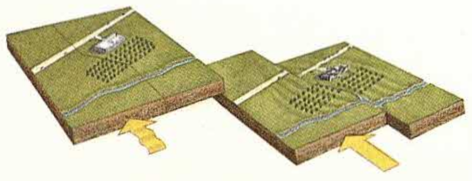
FRONTIERS OF DANGER: HOW AN EARTHQUAKE WORKS

Earthquakes are often experienced, along with volcanoes, at the point where two plates are forced together (see THE RESTLESS EARTH). However, many occur at transform faults, where plates grind and scrape past one another and no upsurge of magma is involved.

If the rocks at the plate boundaries are sufficiently slippery — as schists are, for example — the slabs merely slide past one another in a process known as "creep." Brittle slabs of crust, however, may interlock temporarily through friction. Rock has some elasticity and will tolerate a certain amount of push and pull. But as the pressure of the subterranean forces accumulates, perhaps over hundreds of years, and the strain becomes intolerable, the slabs are ripped apart in one juddering paroxysm. The point of rupture, usually many miles underground, is known as the focus of the earthquake. Above it, at ground level, is the epicenter.

The sudden release of energy sets up shock waves, traveling outward from the focus, that can shake cities to their foundations. Some of the world's greatest cities lie on or near these dangerous faults: Tokyo, Lisbon, San Francisco, among others.

Seismographs measure the amount of energy released on a scale named after C. F. Richter, the U.S. scientist who introduced it. Magnitudes of 0–3 on the Richter scale create no damage and may pass almost unnoticed, while a magnitude exceeding 8 can flatten a city. The great San Francisco earthquake of 1906, in which over 500 people were killed, measured 8.25. Yet here, as elsewhere, it was noticed that the structures built on hard rock survived remarkably well. Those built on soft ground succumbed to catastrophe.



SUDDEN RELEASE. Pressure gradually builds up along a fault until released in one destructive earthquake.

ROAD HAVOC. The overpass to the Golden State Freeway in California collapsed during an earthquake in 1971.

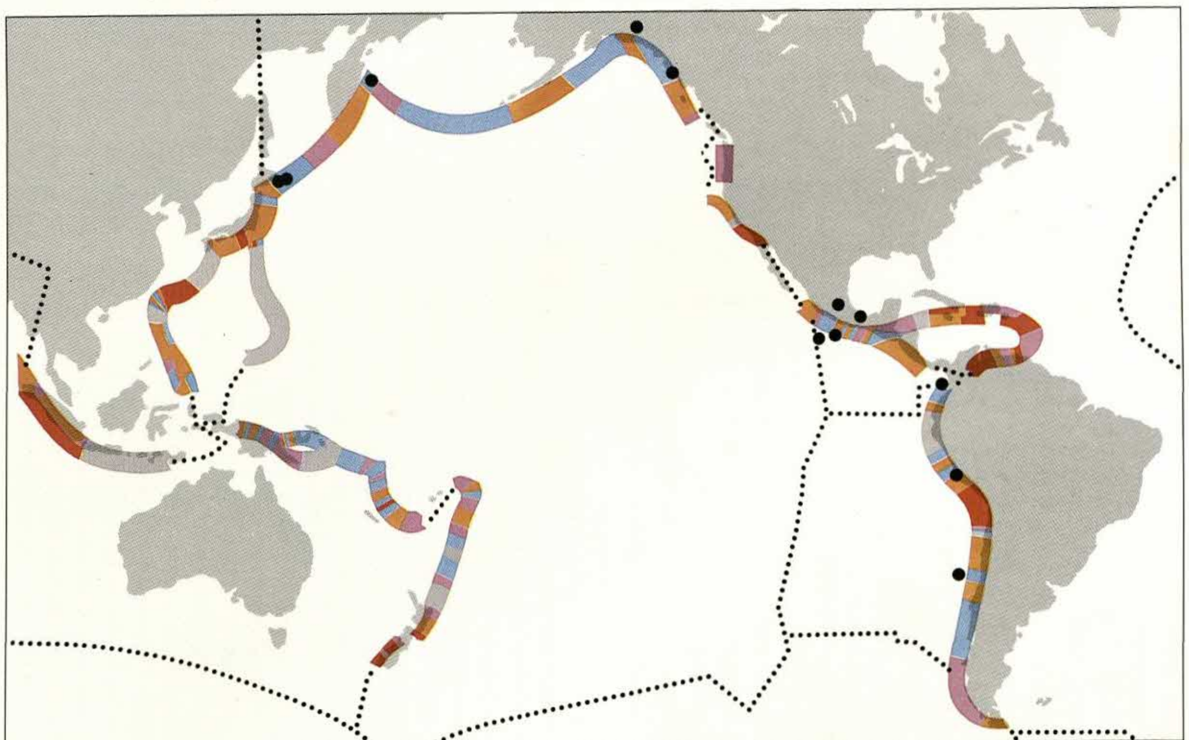
CAN SCIENTISTS PREDICT EARTHQUAKES?

On July 27, 1976, an earthquake devastated Tangshan, an industrial city in northern China, and some 650,000 people were killed. That it struck without warning — despite the complex seismographic equipment — illustrates the difficulty of predicting earthquakes.

Nevertheless, modest successes have been achieved in interpreting early warning signs. Seismographs sometimes detect small tremors as foreshocks. There are also various instruments which either record telltale changes in land levels and contours or register the strain that builds up in rock before a rupture.

Some of the most promising research is concentrated on primary, or *P*, shock waves. These are the fastest seismic waves, traveling by compression and dilation like the bellows of an accordion. (Slower *S* waves ripple up and down.) Research suggests that the speed at which the rock transmits *P* waves changes before an earthquake strikes.

Scientists have also studied the length of time between major earthquake episodes. Violent earthquakes sometimes come in cycles at plate edges, strain building up during long periods of quiet. Where gaps in seismic activity are recorded, there is high potential for catastrophe.


••• Plate boundary
🟥 High seismic potential (site of great earthquake over 100 years ago)
🟧 Medium seismic potential (site of great earthquake between 30 and 100 years ago)
🟪 Low seismic potential (site of great earthquake within past 30 years)
🟦 Historical record incomplete
⬜ No historical record
● Sites of successful forecasts

GAP MAP. The concept of seismic gaps suggests that large earthquakes are most likely to occur where they have happened 100 years or more ago. High-risk areas include Chile, California, Taiwan, Sumatra, and the Caribbean.

Mountain Building: Forces that Shape the Earth

Mountains are for many people symbols of eternity, soaring toward the heavens as they have done, it seems, since time began. But that sense of timelessness is false. Only a few tens of millions of years ago — not a long span by geological reckoning — the material from which Mount Everest and the sky-raking peaks of the entire Himalayan range are made lay beneath the sea. Trapped in the layers of folded rock which form the Himalayas lie marine fossils, the debris of islands, even slivers of oceanic crust.

In the 19th century geologists had little idea that mountains were created by vast forces within the earth. They reasoned that the earth must be shrinking, and likened its mountain ranges to the wrinkles on the skin of a dried apple. Today the concept has been replaced by the theory of plate tectonics.

Modern earth scientists believe that the Himalayas, the Rockies, and the Alps — indeed all of the world's major mountain ranges — started life at the edges of continents. Heat currents within the earth cause the ocean floor to spread, so that oceanic crust can act like a slow conveyor belt, bringing continents, volcanic chains, and seamounts into collision.

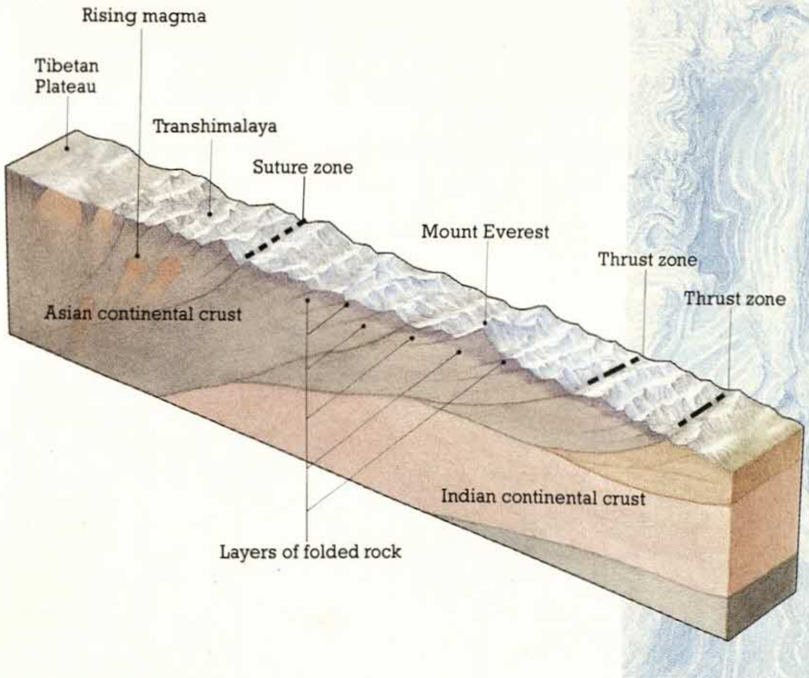
"Orogenesis" is the technical term for the process of mountain building. Although a range starts at a continent's edge, the finished product may end up far inland, either sandwiched between converged land masses or bulwarked from the sea by the gradual buildup, or accretion, of blocks of sedimentary rock. Tens of millions of years elapse before a young range reaches maturity. Nevertheless, the pressure of the moving plates is remorseless — capable of pushing seabeds to the roof of the world.

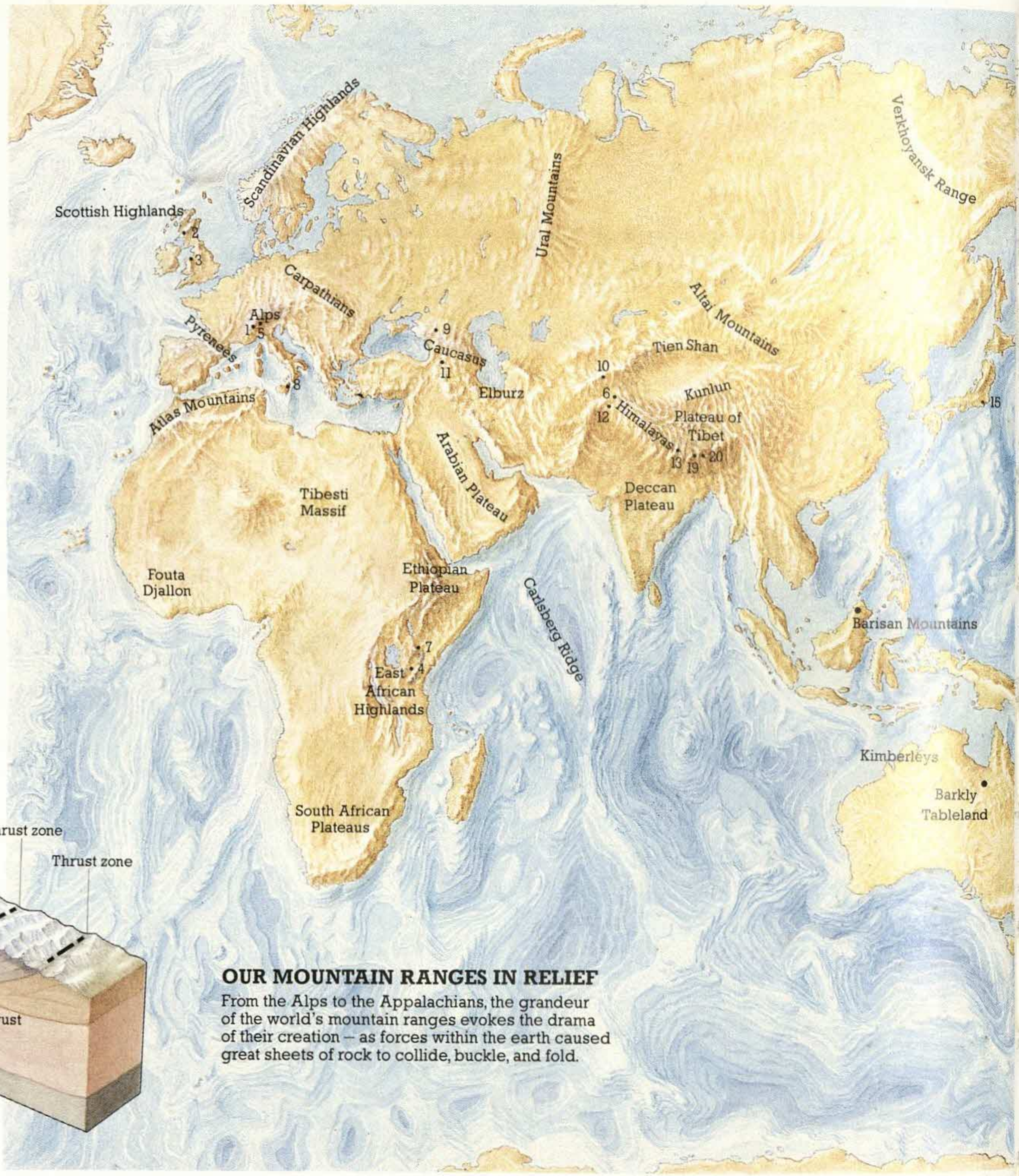
THE HIMALAYAS – CRASH OF CONTINENTS

When one continent collides with another, the impact tends to throw up a mountain system of great complexity. Some 40 million years ago, India crashed into Asia at the geologically breakneck speed of 4 inches (10 cm) a year. The collision created the Himalayas — mountains welded together by warped and shattered rock, interlocking to form the highest chain on earth.

As the intervening ocean closed up, India slid some 310 miles (500 km) beneath Asia. It then continued to plow northward for another 930 miles (1,500 km), with some parts sliding in sheets over Asia while others were driven sideways along gigantic horizontal, or strike-slip, faults. The resulting folds and overfolds of layered rock account only partly, however, for the double thickening of the earth's crust that is found in the Himalayas. For huge quantities of magma, or molten rock, have welled up beneath the crust, especially under the high plateau of Tibet. This has created surface volcanoes in places.

Sutures, or narrow seams, in the earth's surface have been found in the Himalayas and indicate a vanished ocean. They are often distinguished by sequences of rock, known as ophiolite complexes, that originated in the oceanic crust and were trapped when the continents converged. The remnants of island arcs have been found in the Karakoram range, for example. Sutures surround the Transhimalaya area — suggesting that it was once an island off India, trapped in the vicelike convergence of the continents.



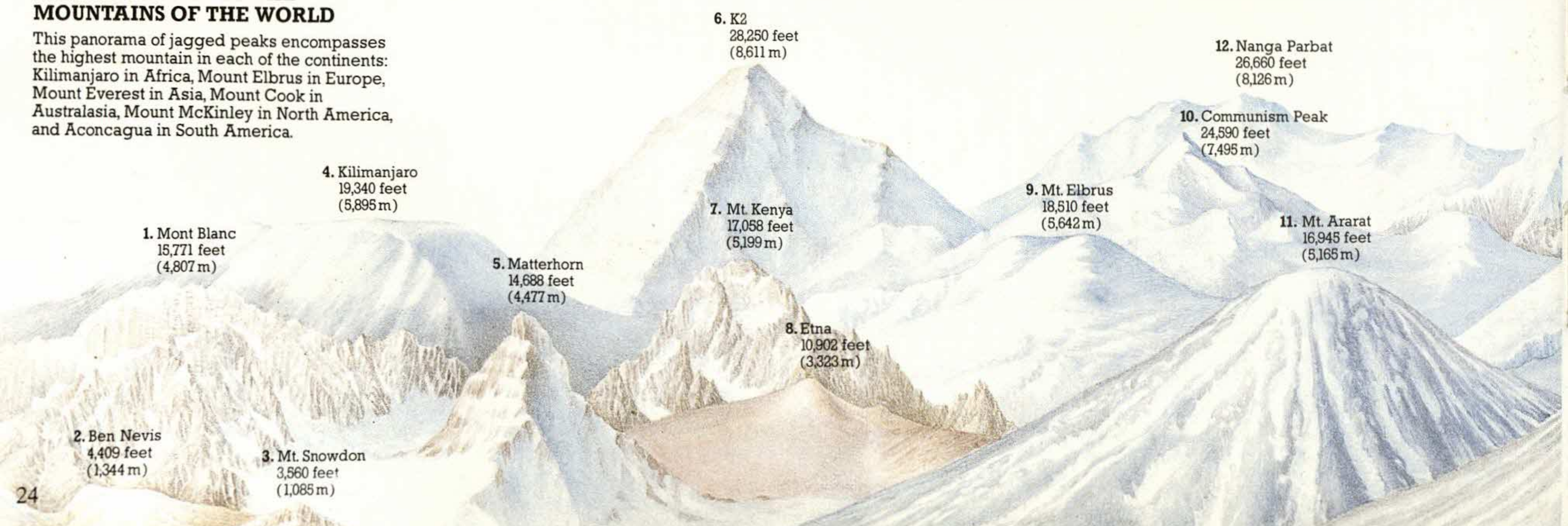


OUR MOUNTAIN RANGES IN RELIEF

From the Alps to the Appalachians, the grandeur of the world's mountain ranges evokes the drama of their creation – as forces within the earth caused great sheets of rock to collide, buckle, and fold.

A PEAK PROFILE OF THE MOUNTAINS OF THE WORLD

This panorama of jagged peaks encompasses the highest mountain in each of the continents: Kilimanjaro in Africa, Mount Elbrus in Europe, Mount Everest in Asia, Mount Cook in Australasia, Mount McKinley in North America, and Aconcagua in South America.


6. K2 28,250 feet (8,611 m)
12. Nanga Parbat 26,660 feet (8,126 m)
10. Communism Peak 24,590 feet (7,495 m)
4. Kilimanjaro 19,340 feet (5,895 m)
9. Mt. Elbrus 18,510 feet (5,642 m)
7. Mt. Kenya 17,058 feet (5,199 m)
11. Mt. Ararat 16,945 feet (5,165 m)
1. Mont Blanc 15,771 feet (4,807 m)
5. Matterhorn 14,688 feet (4,477 m)
8. Etna 10,902 feet (3,323 m)
2. Ben Nevis 4,409 feet (1,344 m)
3. Mt. Snowdon 3,560 feet (1,085 m)

THE COASTAL RANGE – A PATCHWORK QUILT

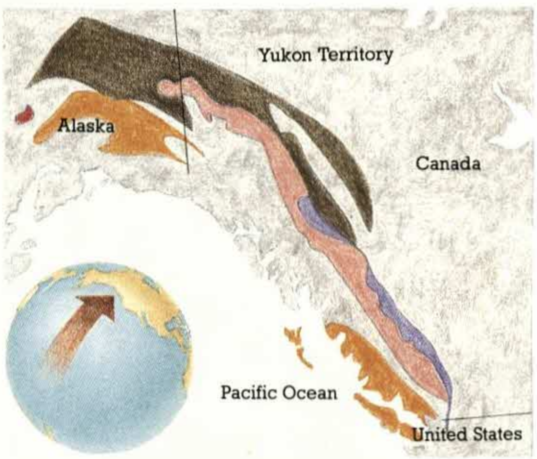
In the early days of plate tectonics, scientists assumed that the great mountain systems were all formed either by the Andean process of subduction or by the Himalayan-style collision of continents. However, recent studies show that many ranges were formed by another mechanism: the slow accretion, or buildup, of blocks of crust known as terranes.

However diverse it may be in its component parts and origins, a terrane is a single geologic entity. It may be a fragment of crust wrenched from a continent's side; a giant sedimentary fan deposited at the mouth of a river system; a volcanic arc; or a seamount or oceanic plateau.

Tectonic processes are constantly generating such terranes, and the spreading sea floor eventually conveys them to the edges of continents. It packs them against coastlines, compresses them, then shunts in new material so that the first heap of flotsam and jetsam may end up forming a mountain range far inland.

The Coastal Range comprises a patchwork of such terranes, including Stikine, Yukon-Tanana, Cache Creek, Chulitna, and Wrangellia. Scientists believe that Wrangellia was originally a volcanic island arc that emerged just south of the equator some 300 million years ago and traveled 3,700 miles (6,000 km) northward as the Pacific Ocean crust spread. About 90 million years ago it collided with the western coastline of North America. Bits of Wrangellia, broken off by continued faulting, were then carried even farther north. As a result, the terrane was extended and its basalt fragments are now found scattered like the unstrung beads of a necklace from Oregon into the Wrangell mountains of southern Alaska.

Later, more terranes packed the coast, leaving Wrangellia stranded. Terranes are still arriving, further complicating the land's patchwork quilt.



◻ Stikine (a volcanic island arc that collided with North America 160 million years ago)

🟫 Yukon-Tanana (metamorphic rocks that accreted against the edge of North America about 190 million years ago)

🟧 Wrangellia (an island arc that formed south of the equator 300 million years ago and collided with North America 90 million years ago)

🟪 Cache Creek (oceanic crust that formed in the western Pacific about 350 million years ago and docked in British Columbia 180 million years ago)

🟥 Chulitna (oceanic crust that formed as early as 390 million years ago and reached Alaska some 90 million years ago)

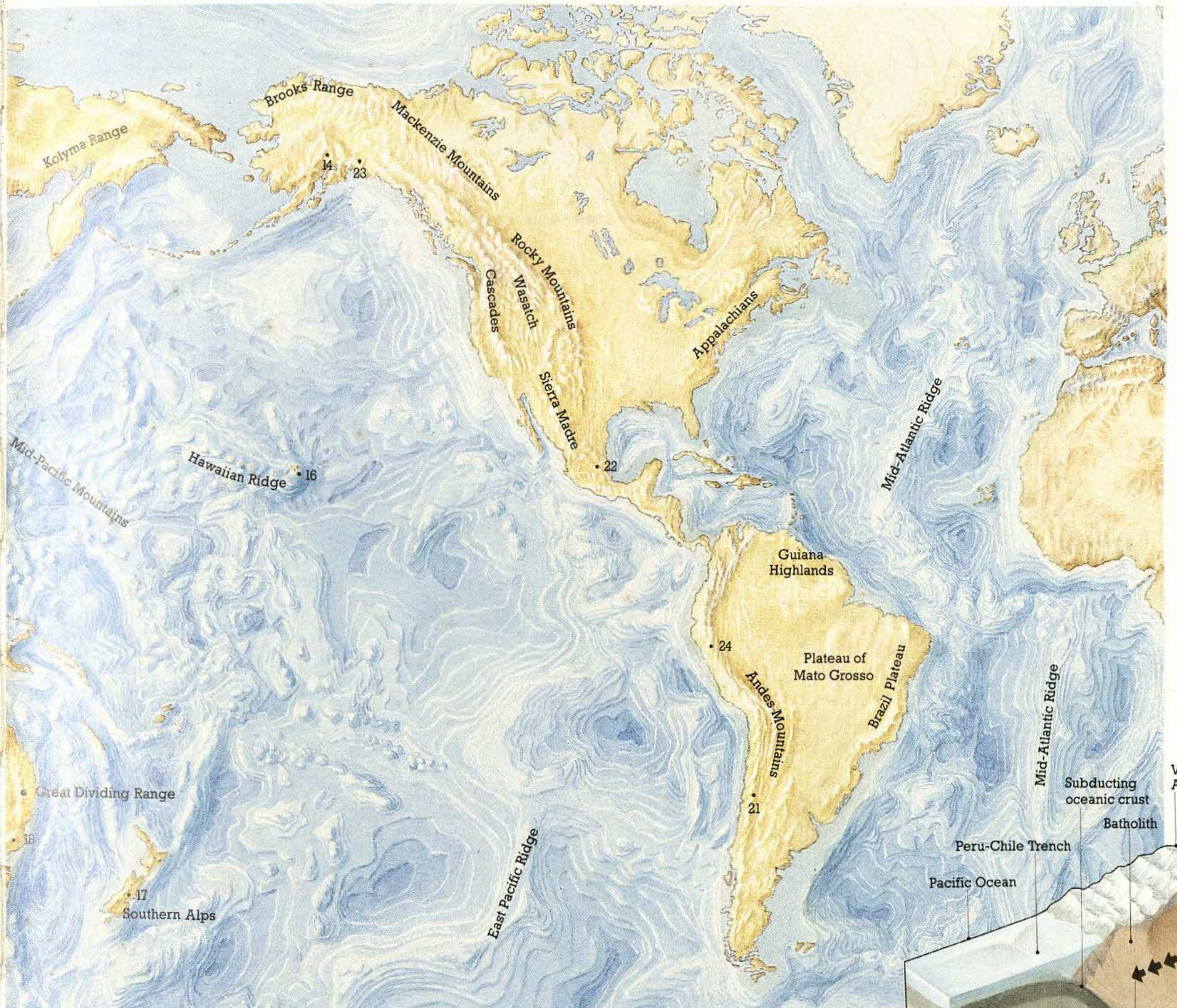
MASS TRANSPORT. Many of the mountains in western North America consist of blocks of crust that have migrated thousands of miles across the Pacific.

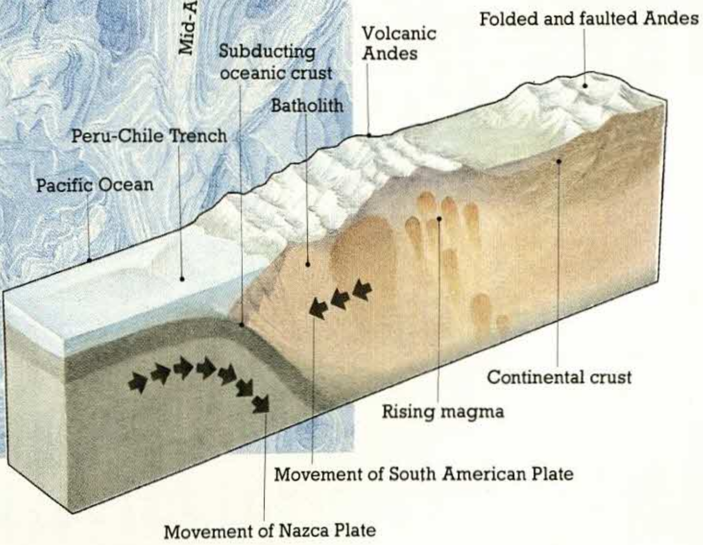
THE ANDES – CONTINENTAL OVERRIDE

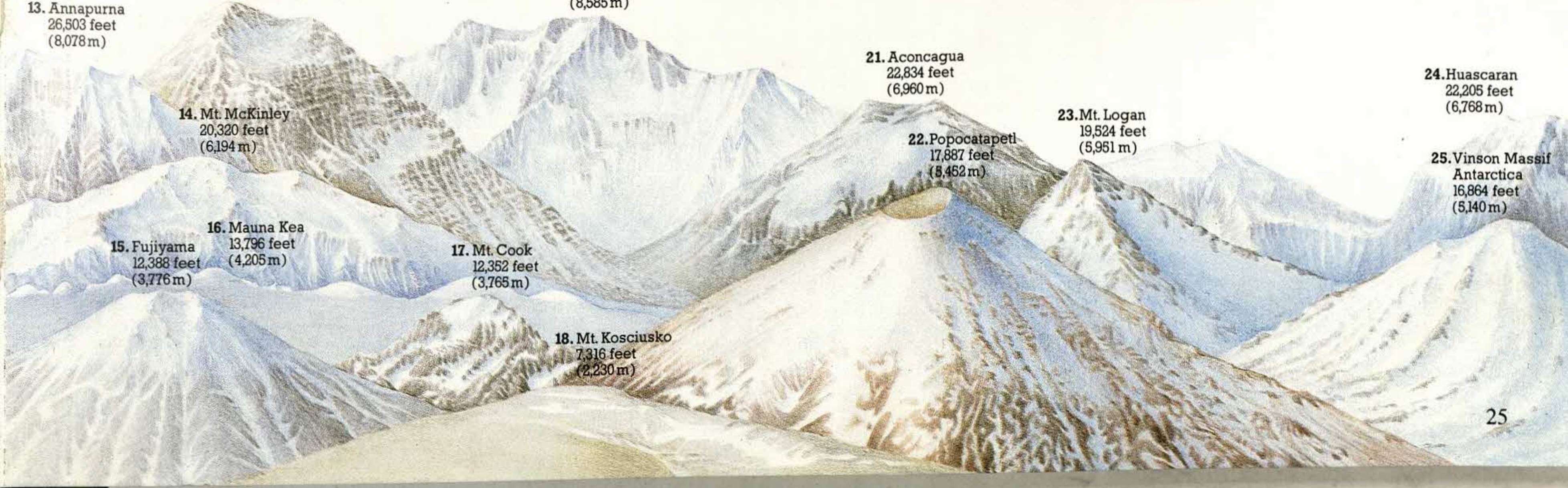
The mountain chain of the Andes, the longest and second-highest in the world, stretches along the entire western edge of South America. It has emerged as the oceanic crust of the Nazca plate has pushed below the continental crust of the South American plate.

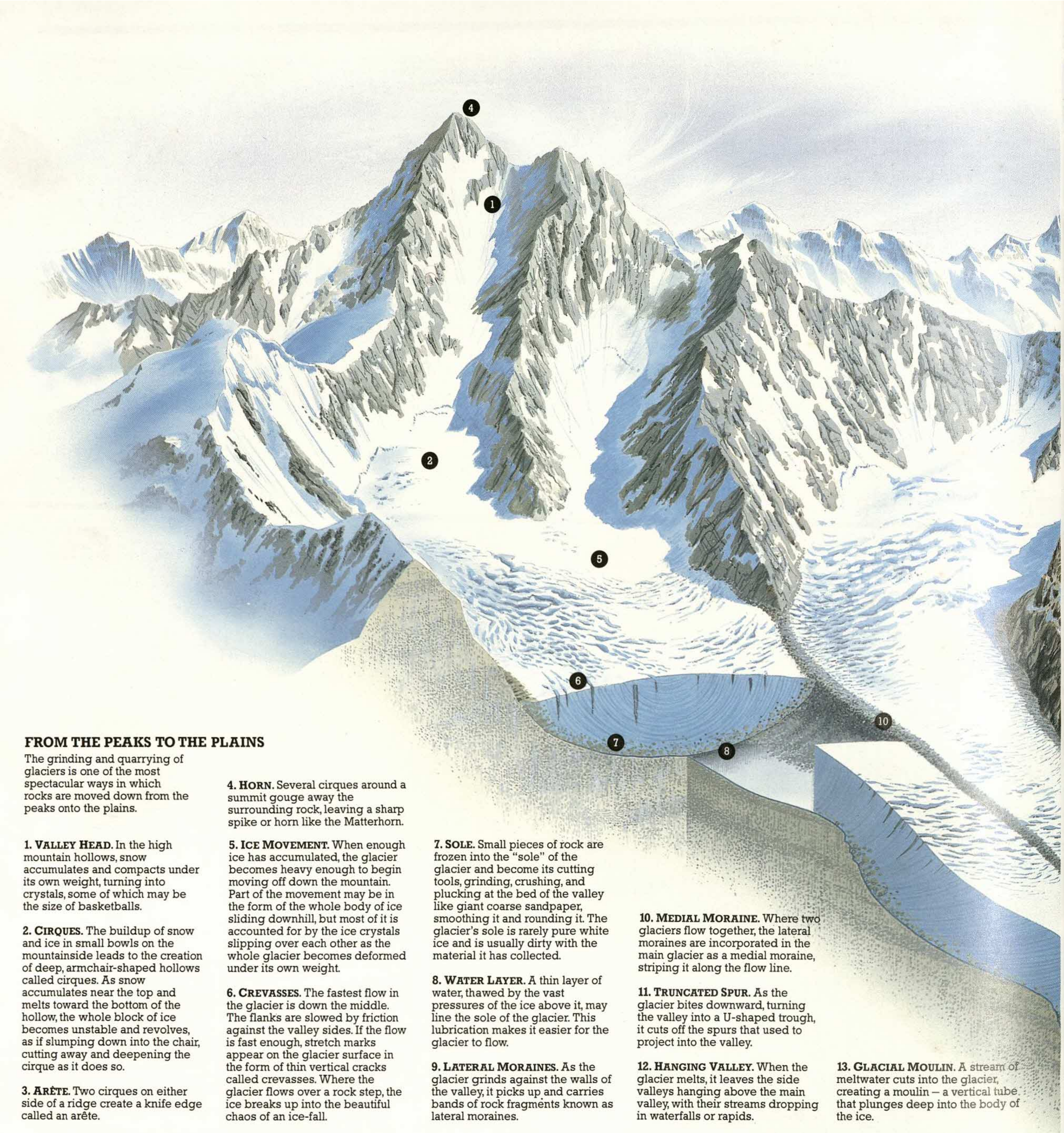
The coming together of these two plates does not fold and heap the layers of rock one on top of the other, as in the case of the Himalayas. Instead, the sea floor dives down beneath the more buoyant continental crust, to be devoured at a deep ocean trench in a process known as subduction.

As the sea floor has been carried down into the asthenosphere, the friction of the sliding plates and the heat and pressure of the earth's interior have caused the rocks to melt. Some of the hot volcanic rock has then risen to the surface, building the chain of volcanoes that fringes the continent. Much of it, however, has come to rest a few miles beneath the surface, where it has solidified in vast subterranean seepages known as batholiths.






13. Annapurna 26,503 feet (8,078 m)
19. Mt. Everest 29,028 feet (8,848 m)
20. Kangchenjunga 28,165 feet (8,585 m)
14. Mt. McKinley 20,320 feet (6,194 m)
21. Aconcagua 22,834 feet (6,960 m)
22. Popocatapetl 17,887 feet (5,452 m)
23. Mt. Logan 19,524 feet (5,951 m)
24. Huascaran 22,205 feet (6,768 m)
25. Vinson Massif Antarctica 16,864 feet (5,140 m)
15. Fujiyama 12,388 feet (3,776 m)
16. Mauna Kea 13,796 feet (4,205 m)
17. Mt. Cook 12,352 feet (3,765 m)
18. Mt. Kosciusko 7,316 feet (2,230 m)



FROM THE PEAKS TO THE PLAINS

The grinding and quarrying of glaciers is one of the most spectacular ways in which rocks are moved down from the peaks onto the plains.

1. VALLEY HEAD. In the high mountain hollows, snow accumulates and compacts under its own weight, turning into crystals, some of which may be the size of basketballs.

2. CIRQUES. The buildup of snow and ice in small bowls on the mountainside leads to the creation of deep, armchair-shaped hollows called cirques. As snow accumulates near the top and melts toward the bottom of the hollow, the whole block of ice becomes unstable and revolves, as if slumping down into the chair, cutting away and deepening the cirque as it does so.

3. ARÊTE. Two cirques on either side of a ridge create a knife edge called an arête.

4. HORN. Several cirques around a summit gouge away the surrounding rock, leaving a sharp spike or horn like the Matterhorn.

5. ICE MOVEMENT. When enough ice has accumulated, the glacier becomes heavy enough to begin moving off down the mountain. Part of the movement may be in the form of the whole body of ice sliding downhill, but most of it is accounted for by the ice crystals slipping over each other as the whole glacier becomes deformed under its own weight.

6. CREVASSES. The fastest flow in the glacier is down the middle. The flanks are slowed by friction against the valley sides. If the flow is fast enough, stretch marks appear on the glacier surface in the form of thin vertical cracks called crevasses. Where the glacier flows over a rock step, the ice breaks up into the beautiful chaos of an ice-fall.

7. SOLE. Small pieces of rock are frozen into the "sole" of the glacier and become its cutting tools, grinding, crushing, and plucking at the bed of the valley like giant coarse sandpaper, smoothing it and rounding it. The glacier's sole is rarely pure white ice and is usually dirty with the material it has collected.

8. WATER LAYER. A thin layer of water, thawed by the vast pressures of the ice above it, may line the sole of the glacier. This lubrication makes it easier for the glacier to flow.

9. LATERAL MORAINES. As the glacier grinds against the walls of the valley, it picks up and carries bands of rock fragments known as lateral moraines.

10. MEDIAL MORAINE. Where two glaciers flow together, the lateral moraines are incorporated in the main glacier as a medial moraine, striping it along the flow line.

11. TRUNCATED SPUR. As the glacier bites downward, turning the valley into a U-shaped trough, it cuts off the spurs that used to project into the valley.

12. HANGING VALLEY. When the glacier melts, it leaves the side valleys hanging above the main valley, with their streams dropping in waterfalls or rapids.

13. GLACIAL MOULIN. A stream of meltwater cuts into the glacier, creating a moulin – a vertical tube that plunges deep into the body of the ice.

Mountain Sculpture: Landscapes of Erosion

Mountains are built by the collision of segments of the earth's crust, some of them carrying entire continents. These segments move across the globe at a rate a little slower than the speed at which a fingernail grows — about an inch a year — traveling distances that are staggering over tens of millions of years. The mountains produced by the titanic collisions of continents are sculpted and eventually ground down by the vast forces of erosion — water, wind, ice, and the sea. Finally, they are moved down, as fine grains of sand and dust, to the ocean floor and the deepest parts of the earth's surface, the ocean trenches.

The mountains now towering above the valleys will all, in time, be leveled. Their memory will be preserved only in the twisted and folded rocks that are now buried beneath them. The ways in which rocks are broken down range from the spectacular to the insidiously slow. Earthquakes can release devastating masses of unstable rock. Water can seep into cracks, freeze solid, and then lever rocks apart. The burrowing of plant roots and animals can loosen the surface. In the winter, as groundwater freezes and expands, earth particles are raised at right angles to the slope, where, in the springtime thaw, they fall downhill. On almost every slope the surface is creeping downhill in this way — so slowly that only the effect and not the movement itself is visible. Fences on such a creeping hillside tilt toward the valley and the trunks of trees growing there are often bent, recording the struggle between the downhill creep and the natural inclination of the plant to grow vertically toward the light.

Gravity ensures that one hundred billion tons of rock, eroded from the earth's surface, are carried down each year into the oceans. The combination of four factors — geology, climate, vegetation, and relief — means that in different places the earth's surface is being worn away at vastly different rates. In the high mountains of the Himalayas, where the monsoon is heavy and where the steep slopes allow rock fragments to move quickly downhill, more than 7,500 tons are stripped from each square mile every year. In the Sahara or the Gibson Desert in Australia, on the other hand, virtually nothing is ever removed from the dry, barren flatness.

EROSION IN ACTION

The surface of the earth is constantly being whittled away. The forces of erosion work slowly and with stealth; on average, less than one thousandth of an inch is clipped off a mountain top each year. But the cumulative effect is enormous. As we look around, we see the landscapes of removal.

The great agents of removal are running water and the wind, but before they can get to work the rock itself must be broken up. Several forces achieve this dismantling of the landscape. In high mountains and during ice ages, the daily temperature often fluctuates around freezing. Water that percolates into cracks in the rock alternately freezes by night (when it expands by about 9 percent) and thaws by day, gradually pushing the sides of the crack apart until eventually a slab of the rock splits away. In high mountains, wide aprons of rock fragments can build up at the foot of cliffs from which they have been levered away.

Even in the absence of water, rocks may split with sudden changes in temperature, just as a glass may do when filled with hot water.

On a larger scale, the structure of a whole valley can be wrecked by massive landslides. If large amounts of water percolate into the soil, making it heavier and more mobile, and if that layer rests on top of slippery clay, the whole hillside can slide down into the valley in a few seconds, as if off a shovel. The rock walls of a valley deeply scoured by a glacier can have so much of their foundations removed that the sudden shock of an earthquake can trigger a rockslide of such enormous proportions that the whole mountainside careers down into the valley in a river of rock.

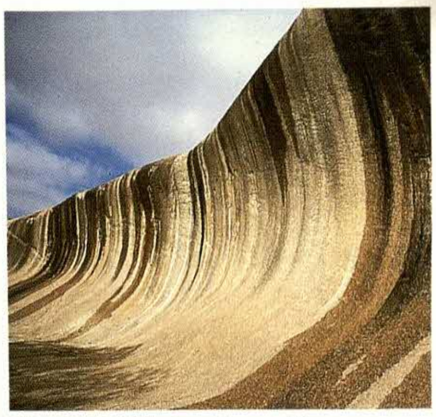
Mildly acid rain dissolves the chemical structure of rocks such as limestone. Great caverns and tunnels are eroded by the water as it percolates through the massif.

Life itself is a vast shaper of the landscape. In an average square mile (2.6 sq km), earthworms penetrating about 4 feet (1.2 m) below the surface can move 6,500 tons of soil a year. Tree roots pushing down in search of water and minerals can lever aside large boulders and even split rocks apart by widening the cracks in them. The burrows of rabbits bring soil and pebbles to the surface, where they can be easily carried away. On the smallest scale, the roots of lichens clinging to the surface of granite, for example, can weave their way between or even through the crystals of the rock, breaking them up and shattering the outer layers of the boulder.

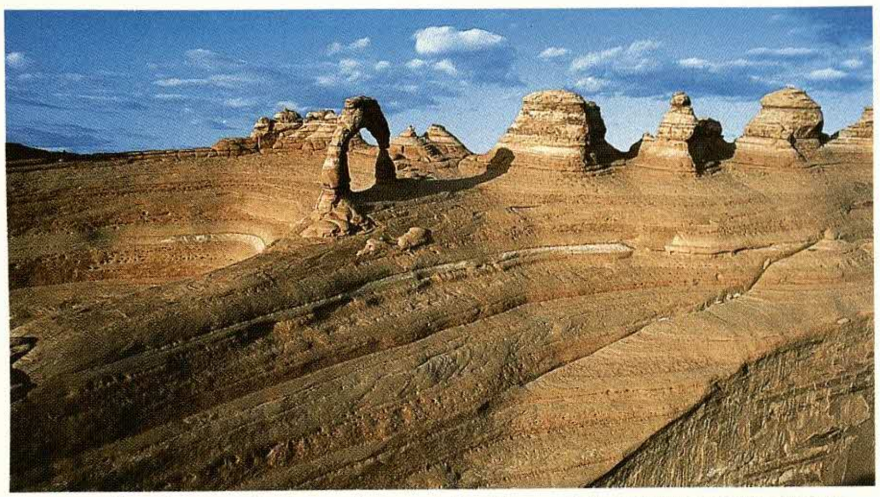
Once the materials of the landscape are broken down, the removal agents begin to take the fragments away. The sheer weight of ice in a glacier can rub away at the valley floor, plucking boulders and scouring rock dust from its bed. Water — the single most important factor in the shaping of landscapes — provides the fluid in which huge tonnages of rock are carried away.

The winds pick up the finest particles, so that breezes are always full of little specks of rock. Only in a dry climate does wind become more significant than water. In deserts, the winds thick with dust particles can act as sandblasters, cutting strange sculptures from the rocks. Here, as in many other places, the underlying geology becomes important. The forces of erosion pick and choose, eating away at soft or broken rocks, but no more than nibbling at the harder ones.

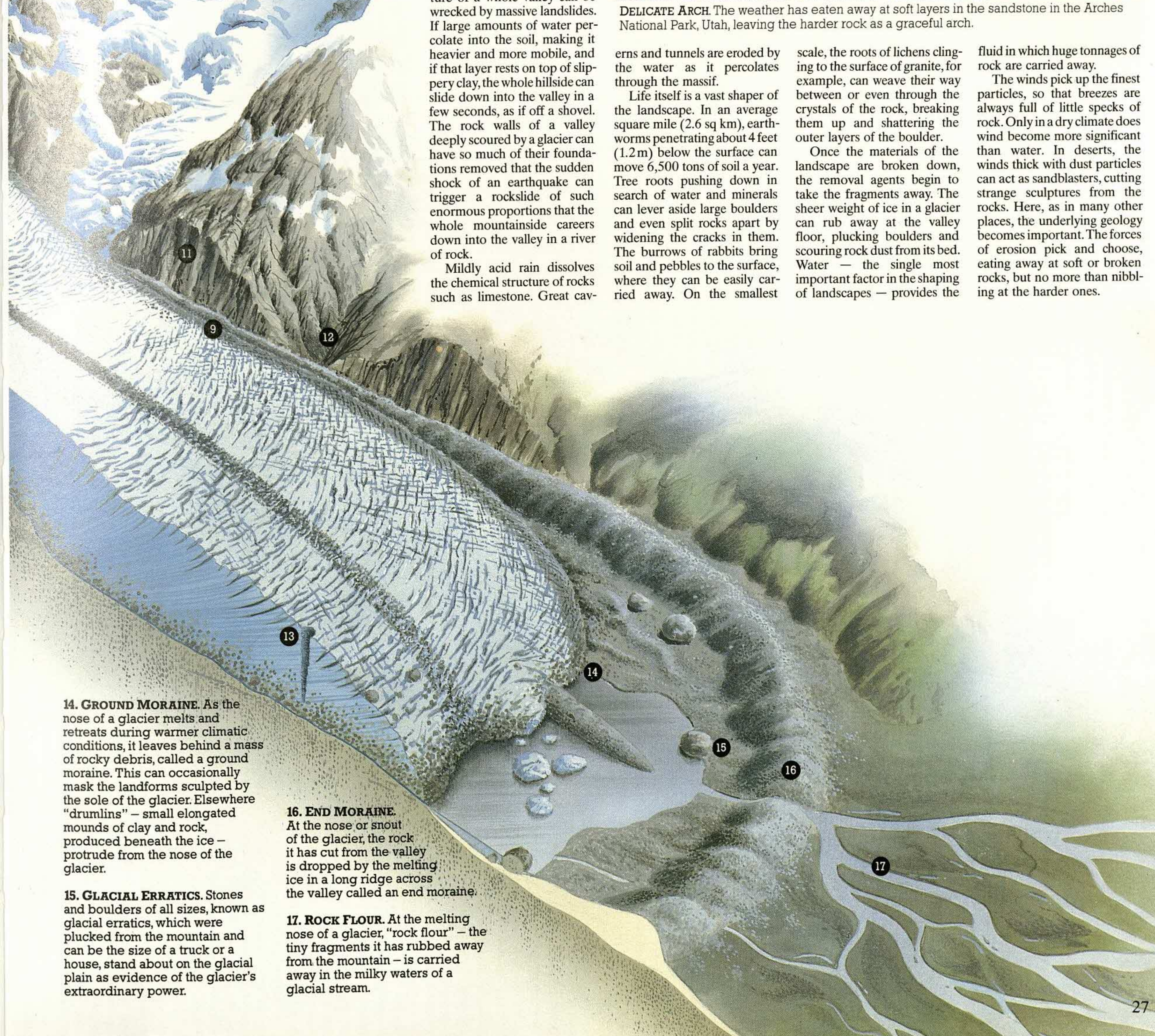
SHERMAN GLACIER. An earthquake in Alaska in 1964 triggered a massive rockslide down the Sherman Glacier.



WAVE ROCK. Winds, water, and the passage of time have sculpted the 50 feet (15 m) high Wave Rock in southwest Australia.



DELICATE ARCH. The weather has eaten away at soft layers in the sandstone in the Arches National Park, Utah, leaving the harder rock as a graceful arch.



14. GROUND MORAINE. As the nose of a glacier melts and retreats during warmer climatic conditions, it leaves behind a mass of rocky debris, called a ground moraine. This can occasionally mask the landforms sculpted by the sole of the glacier. Elsewhere "drumlins" – small elongated mounds of clay and rock, produced beneath the ice – protrude from the nose of the glacier.

15. GLACIAL ERRATICS. Stones and boulders of all sizes, known as glacial erratics, which were plucked from the mountain and can be the size of a truck or a house, stand about on the glacial plain as evidence of the glacier's extraordinary power.

16. END MORAINE. At the nose or snout of the glacier, the rock it has cut from the valley is dropped by the melting ice in a long ridge across the valley called an end moraine.

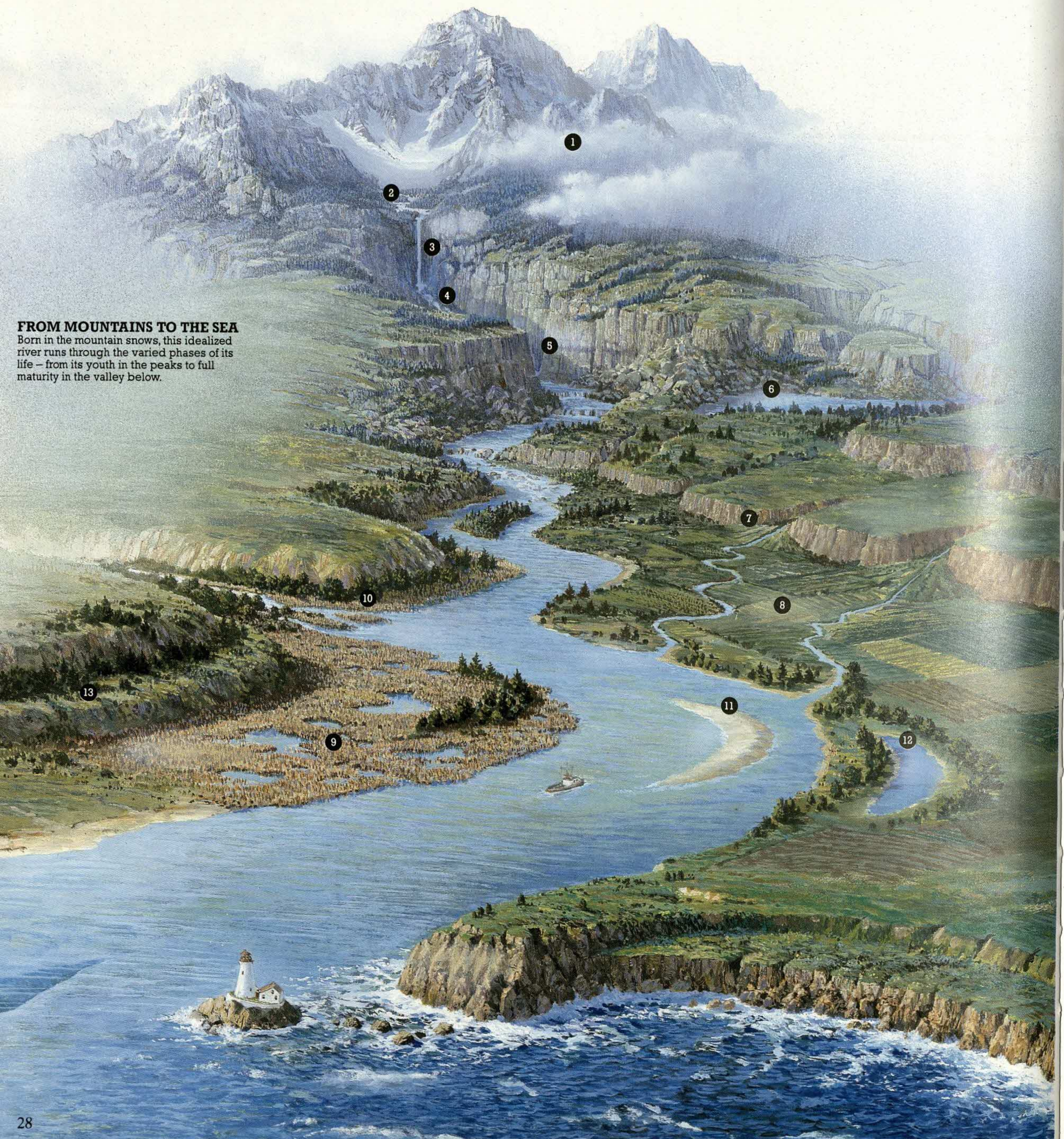
17. ROCK FLOUR. At the melting nose of a glacier, "rock flour" – the tiny fragments it has rubbed away from the mountain – is carried away in the milky waters of a glacial stream.

Rivers and Lakes

Earth is the water planet, seven-tenths submerged or covered by ice. Our heads are wreathed in a thin veil of water vapor. The ground beneath our feet is continuously worn away by the flow of running water. And our lakes provide us with some of the planet's most breathtaking sites of natural beauty and most of the fresh water we use.

Gravity pulls a river downhill, giving it the power to carry a vast cargo of rock particles that have been rubbed and flaked away from the mountains by the weather. Although only 0.0001 percent of the earth's water is in its rivers, running water has a monumental effect on the landscape. Wherever a stream encounters weakness in the land through which it passes, it cuts wide valleys, and through harder rocks it scours narrow gorges as it works its way to the sea. The river collects more material along the way, carrying it downstream in a process that constantly reshapes the landscape. But, even though rivers have the power to move mountains to the sea, earth movements cause new hills to rise up. New rivers are born and old rivers are rejuvenated. The life cycle of the landscape — a ceaseless renewal — begins again.

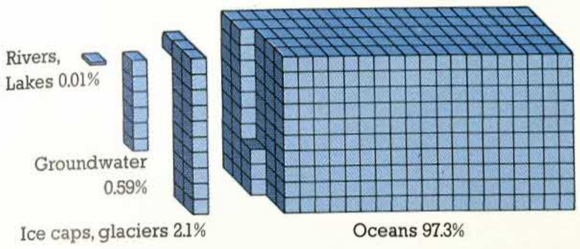
The rivers of the world are like great conveyor belts, emptying over a billion cubic feet of fresh water into the oceans every second. One day's discharge from the Amazon alone, which accounts for 20 percent of the total, could supply New York with water for nine years. The weathered remains of mountain ranges are swept along by rivers, in the form of more than 10 billion tons of sediment a year. Of this, about 40 percent is discharged by the Huang He, Yangtze, Irrawaddy, Mekong, Ganges, and Indus. These six rivers rise on the rooftop of the world in the icy wastes of the Himalayas and Tibet — an area that accounts for only 4 percent of the earth's land surface.



FROM MOUNTAINS TO THE SEA
Born in the mountain snows, this idealized river runs through the varied phases of its life – from its youth in the peaks to full maturity in the valley below.

WHERE THE WATER IS

The heat of the sun evaporates water from the earth's surface into the atmosphere — a giant mixing system that recycles some 124,000 cubic miles (516,000 cu km) of water a year back to sea and land as rain or snow. Of this, about 25,000 cubic miles (104,000 cu km) falls on the land to flow as rivers toward the sea. Only 0.6 percent of the earth's water is liquid fresh, and at any one time a mere fraction of that is in its rivers and lakes. The remainder is groundwater — rain that has sunk underground and is either tapped for wells or issues as springs.



LIQUID ASSETS. Most of the world's water is in the oceans. A small proportion is bound up in ice sheets and glaciers, while a tiny fraction – about 1/10,000 – exists in rivers and lakes.

THE LIFE OF A RIVER

The course of a river, from its first gurgle at the source to the mingling of its waters with the sea, has often been likened to a life story. During its youth in the mountains, the river plunges over waterfalls, cuts abrasively through gorges, and careens along rapids, carving its course through the landscape. By maturity, it has smoothed a path for itself; its gradient is less steep and its course more sinuous. Fed by tributaries, the river continues to expand. As it sways from side to side, the course of its meanderings cuts away at the high ground constraining it, widening the valley and smoothing out a broad flood plain. Downstream of the early meanderings, the river continues to rework the landscape. In its lowland course, its "old age," it is still vigorous enough both to eat away at one part of the land and to build up another. Sand bars and oxbow lakes are left stranded by its shifting over time. But these are only temporary consequences of the river's constant search for an equilibrium — a course that in its steady gradient, its rounded channel, and the smoothness of its bed provides the least resistance in its long and varied journey to the sea.

1. Rainfall and Runoff. Rainwater that is not immediately evaporated into the atmosphere from vegetation reaches the ground. Some soaks into the soil to form reserves of groundwater beneath the surface. The rest, the runoff, flows toward a stream.

2. Headwaters. At the valley head, the runoff converges with groundwater that has seeped back to the surface in springs to make a stream.

3. Waterfall. The river tumbles over the hard, rocky lip of a waterfall, eroding the softer rock downstream and cutting a narrow V-shaped valley below it. Eventually the back-splash of the falling water, armed with pebbles, undermines the cliff face. The overhang above collapses, and the lip of the waterfall retreats upstream.

4. Rapids. Streams proceed in fits and starts according to the amount of resistance they meet from the rocks over which they flow. Sometimes the erosion by a river is slowed down in one section by resistant rock, while downstream the rock is softer and more easily eroded. A rapid drop develops at the boundary between the two types of rock. Eventually erosion smooths away the rapids and the flow evens.

5. Gorge. Hard particles of sand and gravel, carried by the river from above, bombard the bedrock and banks, cutting a steep-sided gorge below the waterfall.

6. Dammed Basin. Man can harness the energy of a stream, as it drops under gravity from the mountains, by constructing a dam across a valley.

7. Alluvial Fan. A tributary emerging from a steep hill-valley into a sloping plain slows down and deposits its load of sediment, or alluvium, in the shape of a fan. The heavier materials settle at the valley mouth; finer ones are carried farther out.

8. Flood Plain. The flood plain is new, often fertile land built of sand, silt, and clay laid down by the river. It is continuously reshaped by flooding and by changes in the river's course.

9. Wetlands. The lowest-lying parts of a coastal flood plain – if unprotected by sea walls or embankments – can be swamped both by high tides and by floods.

10. Tributaries. The river is fed by the streams that pour into it. The extra volume of water cuts a wider and deeper channel and the flow of water in the main river speeds up.

11. Sand Bar. As the river rounds the inside of a bend, it drops its load of sand and gravel. These materials settle to form sand bars, which are left as crescent-shaped banks in midstream as the river shifts to follow a course of least resistance.

12. Oxbow Lake. The course of the river changes over time. This oxbow lake was once the loop of a meander that has now been bypassed by a short cut in the river's route.

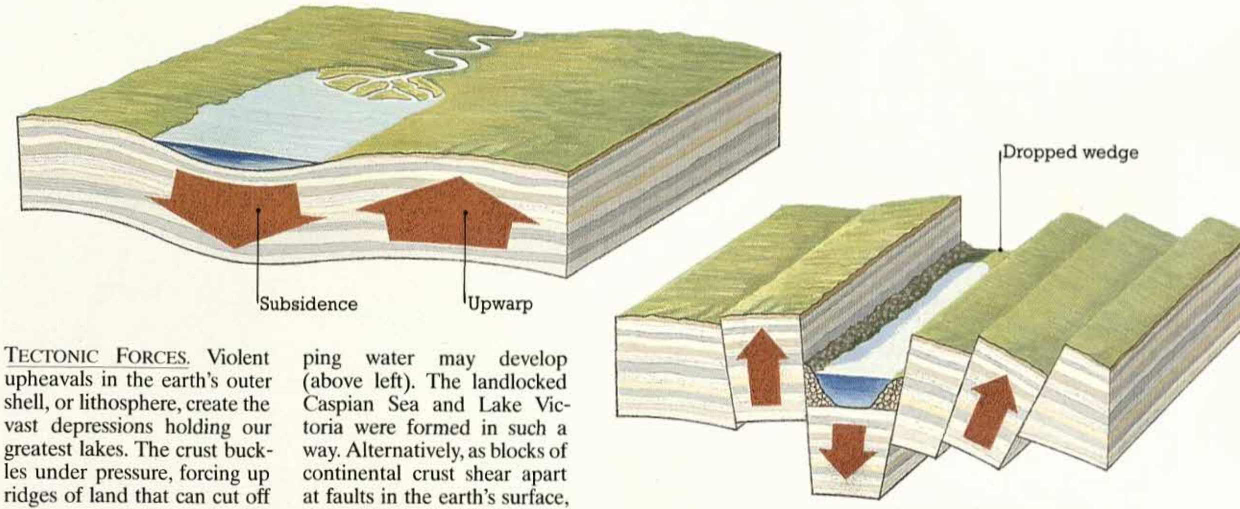
13. Terraces. Benches, or terraces, cut in the rock may be the legacy of a time when the land mass was lower relative to the sea. Near the mouth of the river, these terraces may be the remains of an earlier shore, when the sea level was higher.

HOW THE EARTH WORKS TO SHAPE ITS LAKES

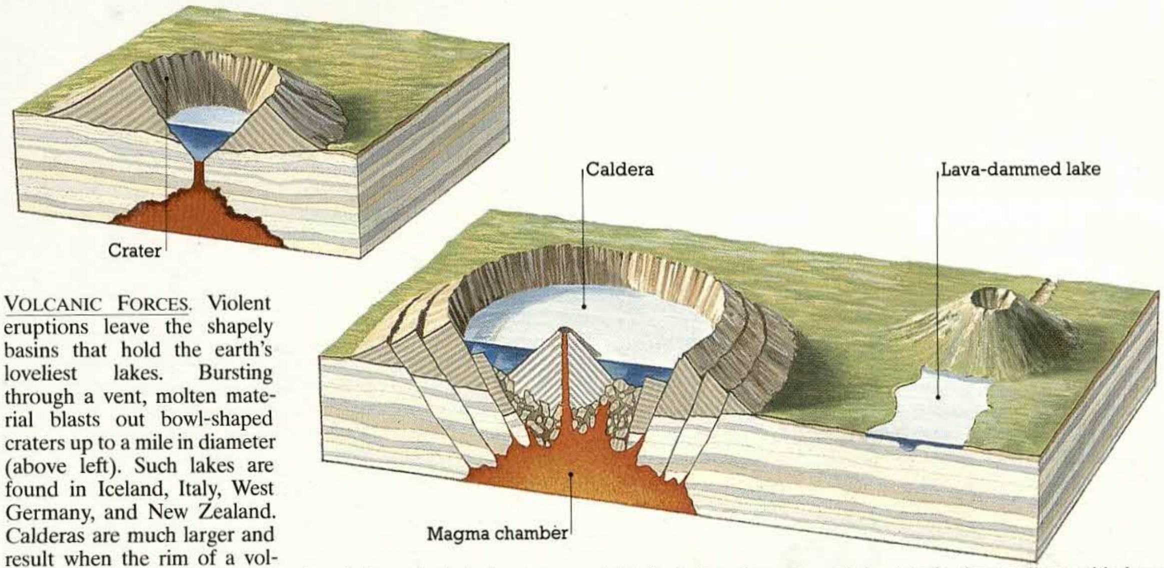
You can often learn the story of a lake's origins by looking at its shape. For a lake is, quite simply, a body of standing water that has collected in a depression or basin in the land. Such depressions have been formed by one or more of a variety of earth forces.

Very deep lakes, for example, may have been created by tectonic upheavals — when huge blocks in the earth's crust sank. Round, high-rimmed craters may have formed when a volcano blew its top or collapsed. Slender, finger-shaped lakes may be the remains of glacial valleys. And crescent-shaped lakes in the lower reaches of a river are usually the result of more recent changes in a river's course.

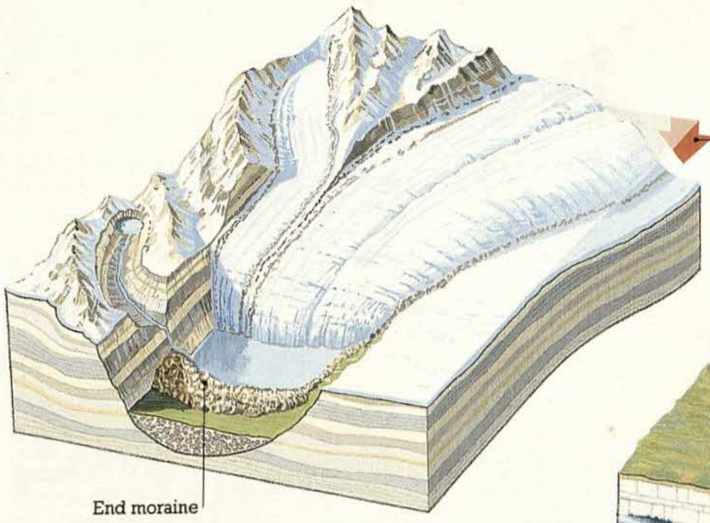
But none of these freshwater bodies is permanent. As the land formed them, so can it eradicate them. Rivers work both to drain lakes and to fill them with mud. Plant growth may entirely choke them or they may disappear in a drought.



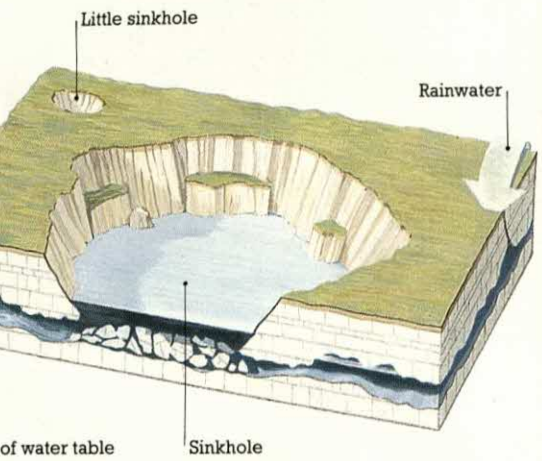
TECTONIC FORCES. Violent upheavals in the earth's outer shell, or lithosphere, create the vast depressions holding our greatest lakes. The crust buckles under pressure, forcing up ridges of land that can cut off an arm of the sea. Sagging between two ridges, a subsidence basin capable of trapping water may develop (above left). The landlocked Caspian Sea and Lake Victoria were formed in such a way. Alternatively, as blocks of continental crust shear apart at faults in the earth's surface, wedges drop to form the fissures that hold our deepest and oldest lakes (above right). Lake Baikal, the world's deepest lake, Lake Tanganyika, the second deepest, and the Dead Sea were all formed by massive earth movements more than 20 million years ago.



VOLCANIC FORCES. Violent eruptions leave the shapely basins that hold the earth's loveliest lakes. Bursting through a vent, molten material blasts out bowl-shaped craters up to a mile in diameter (above left). Such lakes are found in Iceland, Italy, West Germany, and New Zealand. Calderas are much larger and result when the rim of a volcano collapses into the vacant magma chamber below. In rampages of destruction, mud and ice-covered crater lakes break through their rims or are blown out by new eruptions (above right). Crater Lake in the United States and Lake Toba in Indonesia were created in this way when enormous volcanoes collapsed. Outpourings of volcanic material can block river valleys with lava dams; Lake Kivu on an arm of the African Rift Valley was formed in this way.



GLACIAL MOVEMENTS. Ice movement has produced most of the earth's lakes: Canada, Finland, parts of Scandinavia, and the Alps glitter with thousands of lakes whose alignment often indicates the direction of the ice flow. During an ice age in areas of high latitude, depths of up to three miles (5 km) of ice depressed the crust. As the glaciers advanced and then retreated, the ice, sharp with rock particles, scoured the valley floors, gouged pockets from between jagged peaks, and deposited mounds of rocky debris called moraines (above). These acted as dams, trapping water from the melting ice and creating lakes such as the Finger Lakes in New York and Lakes Lucerne, Como, and Garda in the Alps. The five Great Lakes of North America were created in a similar way, after the final retreat of the glaciers which began about 15,000 years ago. The Baltic Sea emerged too at the end of the last ice age, as the Scandinavian ice sheet, which had once covered most of northern Europe, melted and retreated north toward the Arctic regions.



OTHER FORCES. Silt deposited by a river, or rockfalls on its banks, can block the outlet from a basin and thus cut off a tributary stream. The same forces can pinch off a loop in a river to form an oxbow lake. In addition, the acids contained in water can dissolve passages and caves in soluble rocks, such as limestone. When the roof of the cave collapses, sinkholes form and can fill with water. Such underground lakes are found in Yugoslavia and in the Yucatán Peninsula of Mexico.

Rocks: Recording the History of the Earth

Every rock is a picture of a forgotten landscape, preserving the memory of the time in which it was made: a sandstone ridge may be the remains of an ancient desert; a coal mine may cut into the great thickness of dead plants from a 300-million-year-old swamp; a limestone massif is, perhaps, the uplifted and eroded remains of the sort of seabed now to be found in the Red Sea.

The variety of rocks on earth is bewildering at first, but each conforms to one of three basic types — igneous, sedimentary, and metamorphic — depending on the way it was formed.

Igneous rocks all began as hot fluid, or magma, that rose from the earth's interior. Their name means "formed by fire," and they vary from granites, which solidify deep underground, to basalts, the hardened remains of surface lava flows. Sedimentary rocks (meaning "rocks that have settled") are formed from beds of small particles that have collected on flood plains, in river deltas, and on the sea floor. Metamorphic rocks ("those whose form has changed") are produced when rocks already in existence are subjected to heat and pressure. Mountain building can squeeze and weld existing rock beds so that they change completely in character. Marble, for example, is metamorphosed limestone, and slate is the product of heavily stressed mudstone.

IGNEOUS ROCKS: BORN IN FIRE

BURIED TREASURE. A diamond lies embedded in kimberlite.

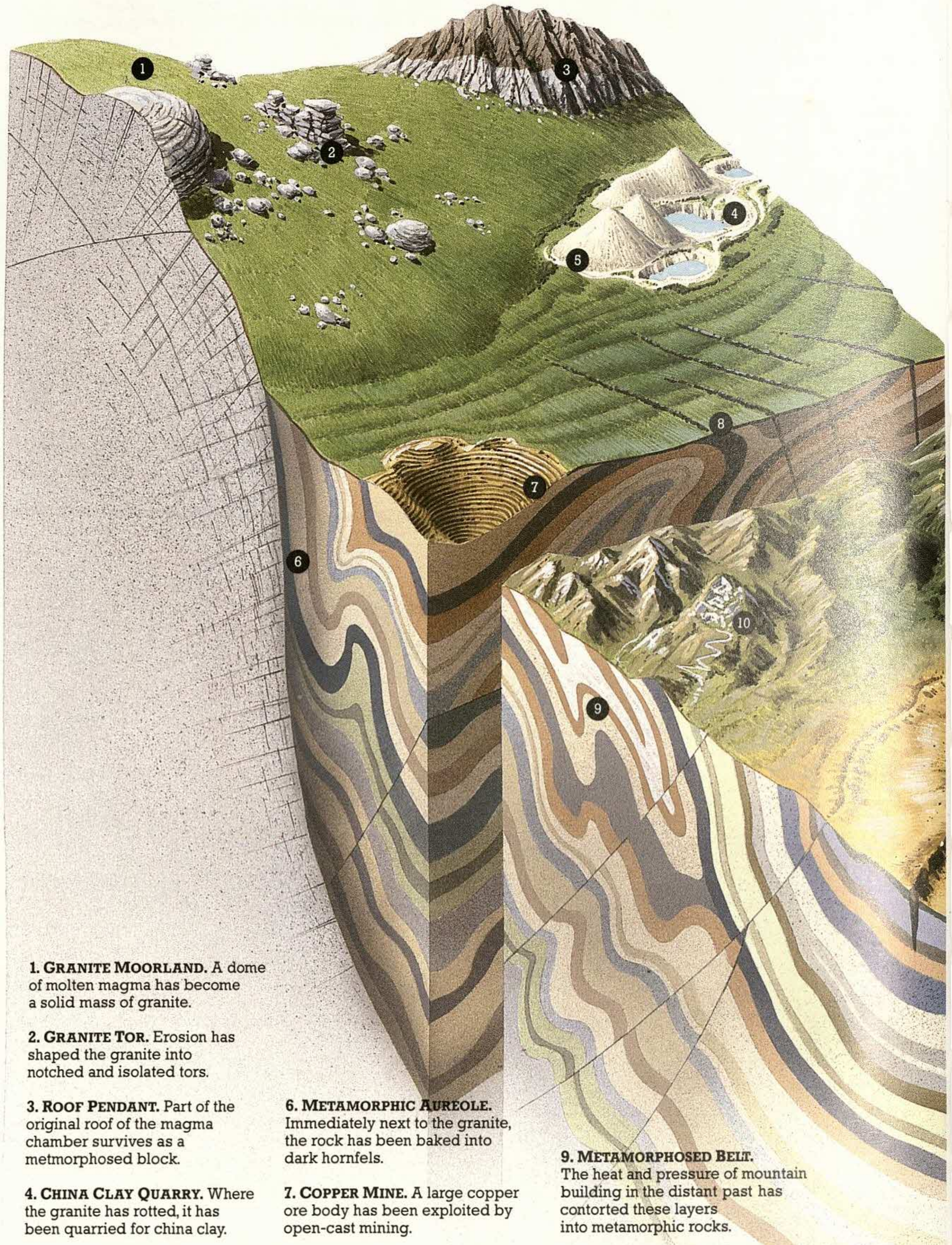
HIDDEN PRESSURE. Deep beneath the Chilean Andes, magma – granite in the making – thrusts upward.

The hummocky surface of a granite moorland, such as Dartmoor in southwest England, began life as a large reservoir of hot, buoyant, and partly molten rock. This magma pushed its way upward from deep underneath a range of mountains as it formed a few hundred million years ago. Erosion has stripped away most of the overlying rocks to reveal the hard, crystalline granite underneath. In one part, the roof of the magma chamber has survived as a "roof pendant" of rock, metamorphosed by the heat and pressure of the rising magma. The moorland is dotted with "tors," small towers of exposed rock. Here, the weather has eaten away at the pattern of cracks and joints in the granite that were created as the original molten mass cooled and shrank. At one edge of the moor, the weathering of the granite has been so severe that its structure has rotted away. The sands and clays that result have been mined for kaolin or china clay, the mineral used in the making of paper, porcelain, toothpaste, and many other products. Mountains of white waste smother the landscape.

Magma that erupts from volcanoes as lava cools into rocks such as basalt. It is often highly resistant to erosion and can stand out in the most dramatic forms. The solidified neck of a volcano stands up as a ragged tower long after the surrounding cone of ashes has been washed or blown away. A flow of lava that once ran down a valley will survive as a long ridge well after the valley walls that once shaped it have been eroded into valleys themselves.

One of the rarest of volcanic effects is the production of diamonds. These gems are produced only under enormous pressures and in great heat, 90 miles (145 km) down in the earth's mantle. Volcanic pipes force the diamond-bearing kimberlite up from there.

ROCK FOUNTAIN. Lava, pouring from Kilauea, Hawaii, will eventually cool into solid basalt.



1. GRANITE MOORLAND. A dome of molten magma has become a solid mass of granite.

2. GRANITE TOR. Erosion has shaped the granite into notched and isolated tors.

3. ROOF PENDANT. Part of the original roof of the magma chamber survives as a metmorphosed block.

4. CHINA CLAY QUARRY. Where the granite has rotted, it has been quarried for china clay.

5. CHINA CLAY WASTE. White mounds of sand are the leftovers from the quarrying process.

6. METAMORPHIC AUREOLE. Immediately next to the granite, the rock has been baked into dark hornfels.

7. COPPER MINE. A large copper ore body has been exploited by open-cast mining.

8. VOLCANIC DIKE. Lava pushing up through weaknesses in the rock now stands out in basalt dikes.

9. METAMORPHOSED BELT. The heat and pressure of mountain building in the distant past has contorted these layers into metamorphic rocks.

10. MARBLE QUARRY. Vast, square-edged cuts have been made into a marble mountain.

METAMORPHIC ROCKS: CONTORTED BANDS IN THE EARTH'S CRUST

Surrounding the block of granite is a wide strip of rocks that have been metamorphosed by heat and pressure. In this metamorphic "aureole," or halo, the rocks nearest the granite have been severely altered into hard, dark hornfels, baked by contact with the mass of molten rock intruding into them. At the outer edge of the metamorphosed belt is a block of marble that is the product of limestone when it has been subjected to heat and pressure. The original sedimentary layering of the rock has been transformed into a dense crystalline structure that, when quarried, can take finely detailed carving and a high polish. Under equivalent conditions, sedimentary mudstone behaves differently, turning into slate that can be quarried and split into fine sheets.

Shot through the metamorphic belt are a series of volcanic dikes. Here, molten magma has been pressed out through cracks in the surrounding rocks and solidified in place. This volcanic rock is often harder than the rock around it. When erosion gets to work, the dikes are left standing as narrow ridges running many miles across the landscape.

As the magma rises, hot liquids penetrate into any cracks and weakness they can find. These liquids carry metals that have been washed out both from the magma itself and from the surrounding rocks. When they cool, they solidify as ores and vein-filling metallic minerals. Concentrations of ores formed in this way are often rich in metals and gemstones, which can be mined. The valuable deposits usually make up only 10 percent or even less of the ore. Vast quantities of rock have to be removed to recover the minerals, leaving deep pits and slag heaps that scar the surface.

MINERAL CACHE. Hot liquids carrying copper and iron solidified as crystals deep underground in Tasmania.

PRECIOUS LOAD. Emeralds, made green by tiny amounts of chromium, lie partly buried in a vein of quartz.

SEDIMENTARY ROCKS: THE LAYING DOWN OF THE LANDSCAPE

The minerals of which rocks are made are constantly being recycled by gravity, the weather, plants, and animals — all of which have an effect on the earth's surface. The great thicknesses of sediment that build up both on the land and in the oceans are, in a sense, the sump for many of these processes, the settled resting place for vast quantities of rock.

In warm, shallow seas on the continental shelves the tropical sun evaporates vast amounts of water from the surface. The calcium carbonate dissolved in the sea is precipitated into crystals, which collect on the sea floor. Over millions of years this process, together with the accumulation of the shells of dead animals, can build limestones that are thousands of feet thick. Coral reefs that had grown on the sea floor are often found in the rock.

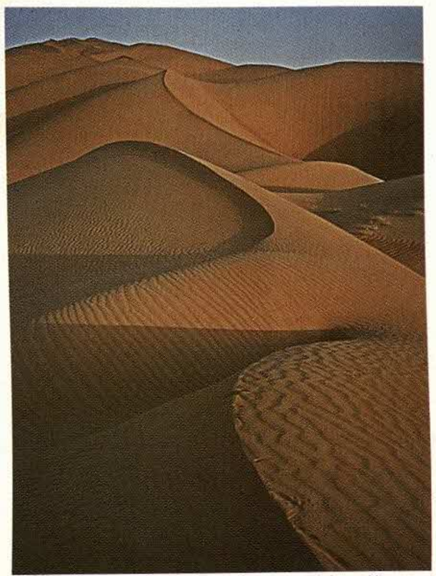
When the sea floor is raised by the collision of continents into high mountain ranges, the percolation of rainwater through the limestone can set this process into reverse. Where the removal of water by the sun had created the rock in the first place, the addition of water now starts to eat it away, dissolving channels and caverns along the beds and faults in the rock.

Chalk is a rather soft form of limestone, which crumbles easily and produces the rounded and well-drained landscapes of downland. Unlike many mountain limestones, it is made up from the minute skeletons of algae, known as coccoliths. In a slow and steady underwater snowfall, they can build up in thick drifts over tens of millions of years, both in shelf waters and in the deep ocean.

Sandstones can originate in deserts, rivers, and deltas, in the waters of the continental shelves, and on the deep ocean floor. Shifting currents, either of the winds or of the waters, can leave their mark on the rock in the form of cross-bedding. Tens of millions of years after the wind blew or the current drifted, the layers of quartz grains in the sand remain quite visibly piled up in the once-prevailing direction of the wind or water current.

In the widespread swamps of about 300 million years ago, most of the great coal seams of the world were laid down. The waters of swamps are often poor in oxygen, and the dead vegetation that falls into them does not rot away. Bacteria attack the plant remains, releasing gases and leaving a residue of vegetable matter. The peat that is formed at first is then buried to form a soft brown coal called lignite. As the sediment is buried deeper and deeper in the earth, the higher temperatures and pressures compact it, eventually producing high-quality, hard, dark, bituminous coal. By then, the seam will only be a tenth of the thickness of the peat from which it formed.

Like coal, oil and natural gas are fossil fuels but, unlike coal, they originate in the plant and animal remains that get buried in the muds at the bottom of the sea or in lakes. After they have been buried by other sediments, chemical reactions convert them into liquids and gases. Both oil and gas are buoyant and mobile, and will tend to rise toward the surface unless blocked by an impermeable layer such as shale. Traveling through the overlying sediments, they can find their way into "reservoir rocks," such as sandstone, where they can be stored in the spaces between the sand grains. The simplest form of oil trap is an anticline, in which a cap of impermeable rock seals an oil and gas reservoir beneath it. Another effective form of oil trap occurs when a layer of salt, which is relatively light compared with the rocks around it, pushes up to form a salt dome. Here, at the boundaries of the dome, the buckling of the rock layers creates sealed pockets in which the oil and gas are caught. Holes drilled from rigs at the surface release the oil and gas. Only rarely is the natural pressure enough to make oil gush out of the hole. It usually has to be pumped out.

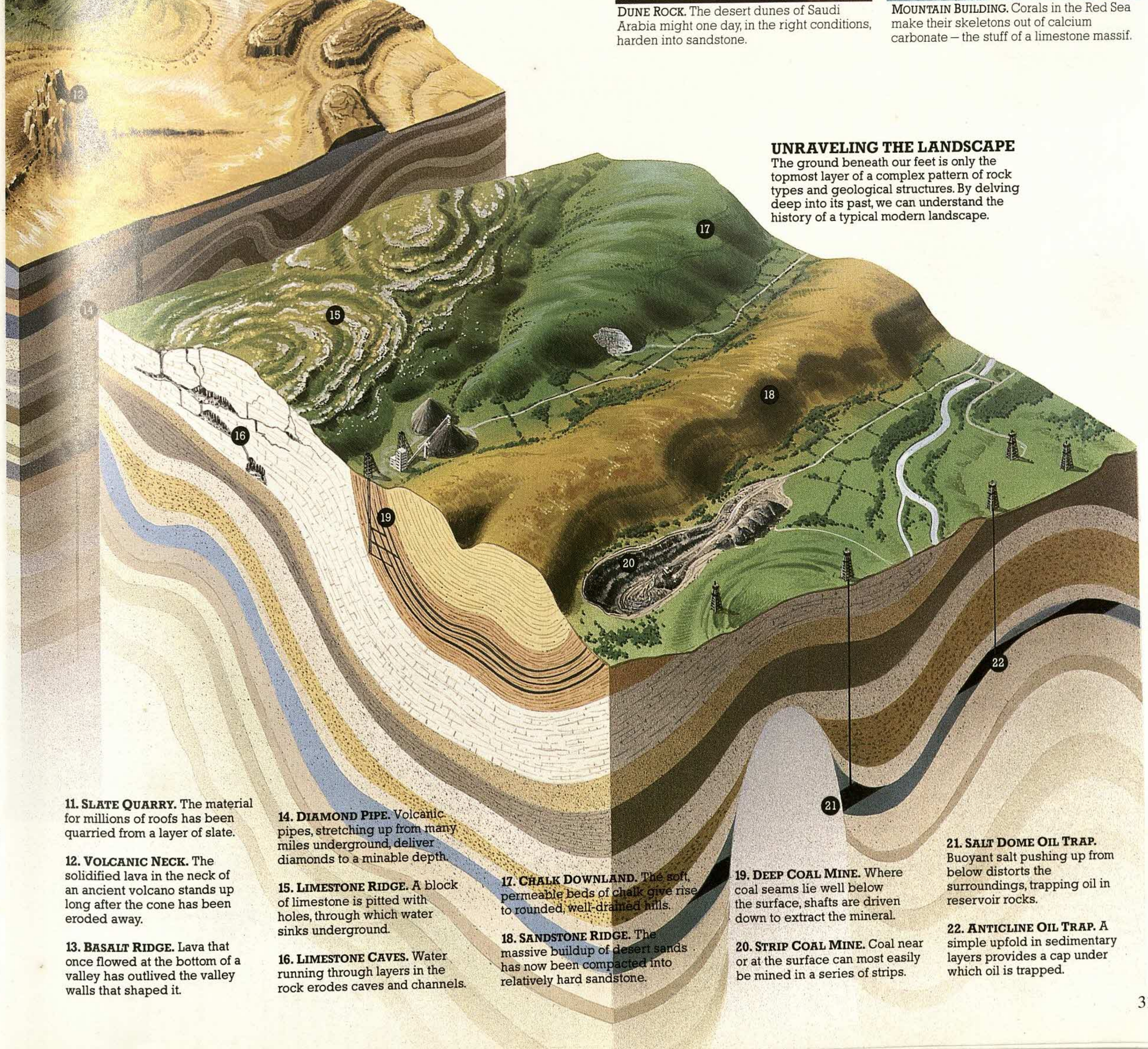


DUNE ROCK. The desert dunes of Saudi Arabia might one day, in the right conditions, harden into sandstone.

MOUNTAIN BUILDING. Corals in the Red Sea make their skeletons out of calcium carbonate – the stuff of a limestone massif.

UNRAVELING THE LANDSCAPE

The ground beneath our feet is only the topmost layer of a complex pattern of rock types and geological structures. By delving deep into its past, we can understand the history of a typical modern landscape.



11. SLATE QUARRY. The material for millions of roofs has been quarried from a layer of slate.

12. VOLCANIC NECK. The solidified lava in the neck of an ancient volcano stands up long after the cone has been eroded away.

13. BASALT RIDGE. Lava that once flowed at the bottom of a valley has outlived the valley walls that shaped it.

14. DIAMOND PIPE. Volcanic pipes, stretching up from many miles underground, deliver diamonds to a minable depth.

15. LIMESTONE RIDGE. A block of limestone is pitted with holes, through which water sinks underground.

16. LIMESTONE CAVES. Water running through layers in the rock erodes caves and channels.

17. CHALK DOWNLAND. The soft, permeable beds of chalk give rise to rounded, well-drained hills.

18. SANDSTONE RIDGE. The massive buildup of desert sands has now been compacted into relatively hard sandstone.

19. DEEP COAL MINE. Where coal seams lie well below the surface, shafts are driven down to extract the mineral.

20. STRIP COAL MINE. Coal near or at the surface can most easily be mined in a series of strips.

21. SALT DOME OIL TRAP. Buoyant salt pushing up from below distorts the surroundings, trapping oil in reservoir rocks.

22. ANTICLINE OIL TRAP. A simple upfold in sedimentary layers provides a cap under which oil is trapped.

At Ocean's Edge

The restless waters of the sea confront the apparently solid bulk of land in a shifting battle zone known as the shore. Waves take advantage of any weakness in our coastal defenses, exploiting every crack and crevice in the rocks. Under the attack, the cliffs retreat and the lines of the shore are redrawn.

The sea, however, builds almost as much as it batters. Along a typical coastline there are places where the sea has eroded the land: storm-beaten cliffs, headlands that are the tough solitary survivors of the sea's invasion, and bays where ground has been given. In other places land is constantly being reclaimed from the sea through the deposit of water-borne sediments: beaches and barrier islands, spits, and salt marshes.

The forces that sculpt the coastlines of the world range from the relentless pounding of the waves in the temperate latitudes to the flow of glaciers in the Arctic and Antarctic, and the organic growth of coral islands in the tropics. But forces even greater than these are at work.

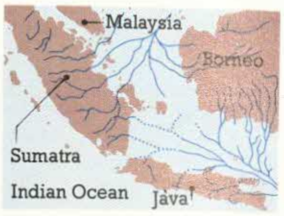
Over long periods of time, the level of the sea changes, either drowning what had been land or exposing what had been seabed. The location of the shoreline at any one time can be divined only by following a trail of clues: drowned forests off the coasts of North America and Europe, rhinoceros bones trapped in fishermen's nets in the North Sea, the fossils of sea animals stranded on the coast, river beds sunk beneath the surface of the sea.

THE RISE AND FALL OF LAND AND SEA

The tales of catastrophic floods told in the folklore and legends of many different cultures, from the Old Testament Book of Genesis to the myths of the ancient Greeks, are corroborated by scientific evidence. The sea level of today is almost 500 feet (150 m) higher than it was 25,000 years ago. Yet, in the context of geological history, this is one episode in the ebb and flow of the shore, as the land emerges or is submerged, depending on the relative level of land and sea.

Coasts emerge when the sea level falls or the land rises, exposing terraces that marked earlier coastlines and marooning deposits, such as marine shell beds or the prehistoric fossils of sea animals, on dry land. Coasts are submerged when the sea level rises or the land sinks. Here, the topography of the land can occasionally be traced on the seabed in the form perhaps of submerged terraces, flooded forests that are exposed at low tide, and drowned river valleys known as fjords and rias.

The level of the land shifts when, for example, continents collide to hurl up great mountain chains, or when the ice sheets, which have depressed parts of the earth's crust for millennia, melt and the crust springs back to its natural position. Worldwide changes of sea level, however, may be the result of melting in the polar ice caps or changes in the capacity of the ocean basins as sediment from the land is disgorged by rivers into the sea.



SUBMERGED COAST. The sea-floor valleys of the Java Sea link up with those on land in a network of river systems. This is a legacy of the time when the sea was about 330 feet (100 m) lower and today's islands were all part of one land mass.

THE MAKING OF THE SHORE

The left half of this illustration of an idealized coastline in the temperate latitudes depicts features caused by erosion; the right half depicts features created by deposition.

1. CLIFFS. Waves, loaded with rock fragments, pound against the cliff and cut a notch at its base. As the overhanging rocks crumble into the sea, the cliff retreats, leaving behind a sloping platform littered with rock debris, which stretches from the high-tide mark to below low tide.

2. COVE. When the sea penetrates a line of weakness in a rocky limestone coast, it may scoop out a bay in the outcrops of softer rocks behind. In the cove, which is protected by the headland, the cliffs slope more gently and are sculpted as much by rainfall as by the force of the sea.

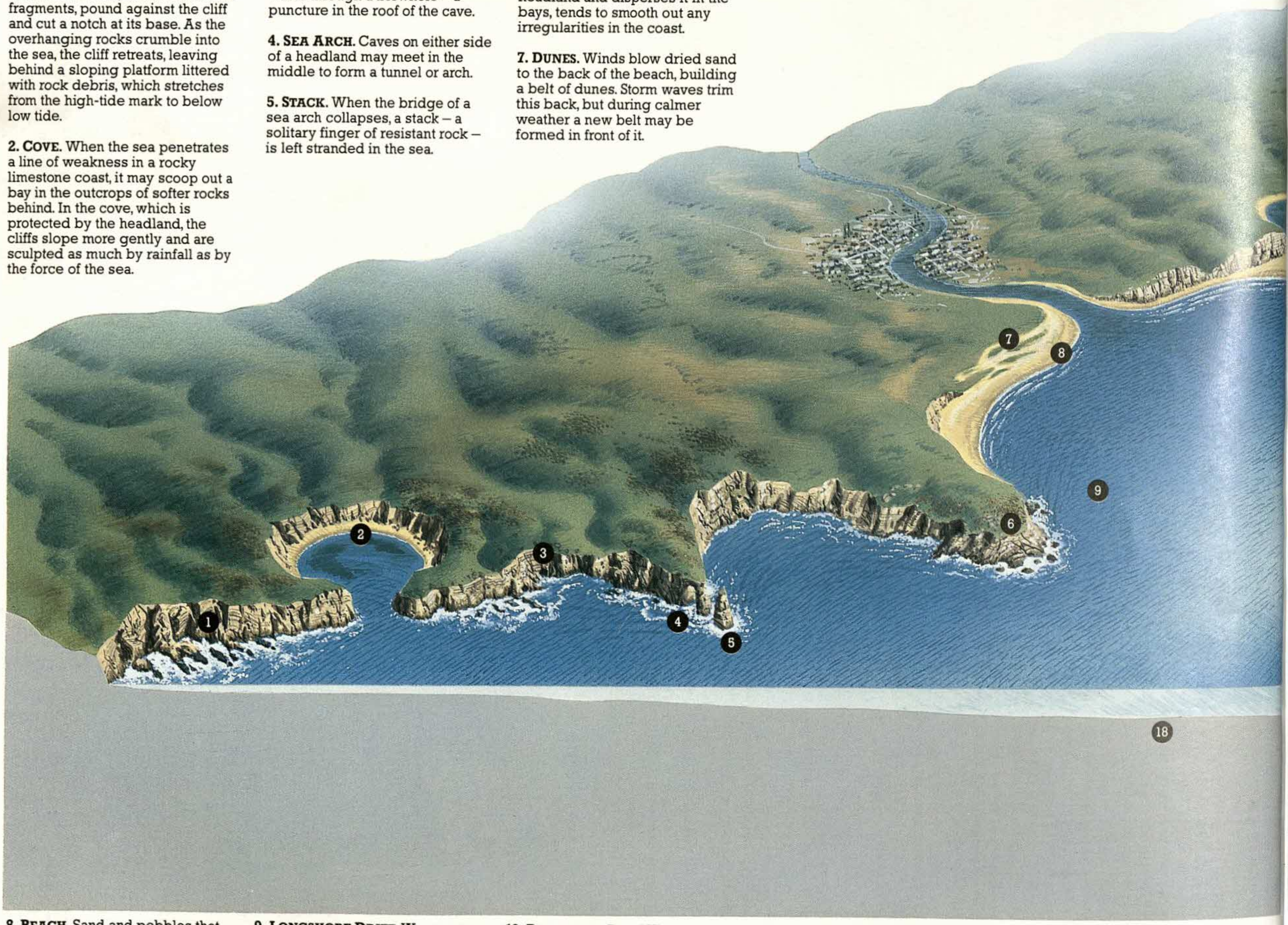
3. SEA CAVE. Cracks and joints in the rock are particularly vulnerable to erosion by the sea. At these fractures, waves surge into every crevice and scour caves in the cliff, compressing the air trapped inside. This may escape as a plume of spray and water through a blowhole – a puncture in the roof of the cave.

4. SEA ARCH. Caves on either side of a headland may meet in the middle to form a tunnel or arch.

5. STACK. When the bridge of a sea arch collapses, a stack – a solitary finger of resistant rock – is left stranded in the sea.

6. HEADLAND. Rocks that can withstand the constant battering of the waves protrude as headlands, sheltering the rest of the coast. Over many years, however, the process of refraction, which concentrates the force of the waves against the sides of the headland and disperses it in the bays, tends to smooth out any irregularities in the coast.

7. DUNES. Winds blow dried sand to the back of the beach, building a belt of dunes. Storm waves trim this back, but during calmer weather a new belt may be formed in front of it.



8. BEACH. Sand and pebbles that have been eroded from the cliffs behind, or transported from other stretches of the coastline, may accumulate between the low-tide mark and the landward limit of the storm waves. These sediments, worn down and sorted into well-rounded grains of a similar size, pack closely together to form the smooth surface of a beach.

9. LONGSHORE DRIFT. Waves are generated by the wind so that, like the wind, they can vary in any direction offshore. As they approach the coast, however, their crests become more nearly – but rarely completely – parallel to the shore. The backwash of the waves, on the other hand, moves straight back down the slope toward the sea. As a result, the sediment transported by the surf zigzags along the shore.

10. BAYMOUTH BAR. Where longshore drift is strong and where the flow from rivers draining the land is weak, a spit may stretch right across the bay, cutting it off from the sea.

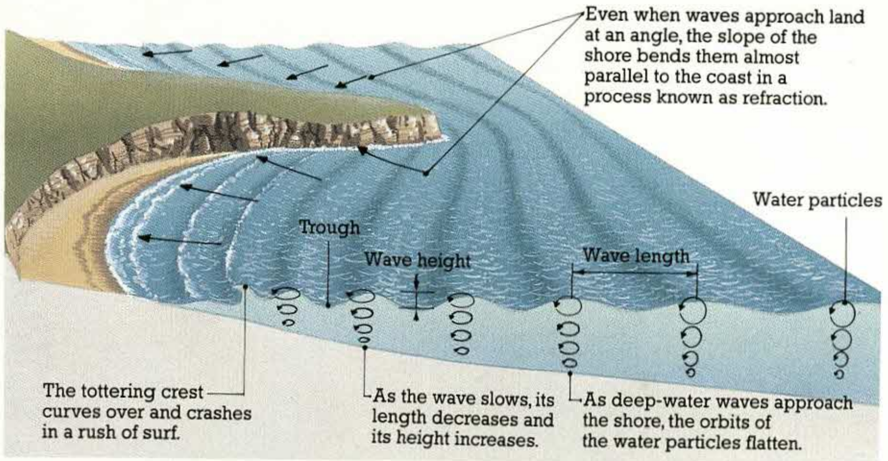
11. TOMBOLO. A ridge of sand or pebbles links a rocky island to the mainland.

12. SPIT. Longshore drift carries sand and pebbles along the coast, where they are deposited in a ridge that extends the line of the nearby shore. Currents or refracted waves may then recurve the end of the spit landward in the shape of a hook.

13. LAGOON. A barrier protects a former inlet in the coast from the sea, creating a lagoon. Near the sea the water is salty, but to the rear, where small freshwater streams drain the land, the lagoon becomes less brackish.

WAVES AT WORK

The turbulence of the wind stirs the surface of the sea; waves are the result. When waves that have traveled hundreds of miles across the ocean encounter the coast, the steady swell of their journey is broken within a matter of yards. The impact of this collision is the single greatest factor in shaping our shores, as the waves lap gently at the beaches or pound the cliffs with a force of up to 30 tons per square yard. Stones and pebbles carried in the water are the wave's cutting edge, reputed to have shattered lighthouse windows 330 feet (100 m) up, sawing and grinding at the cliff faces and gradually pushing back the line of the coast.

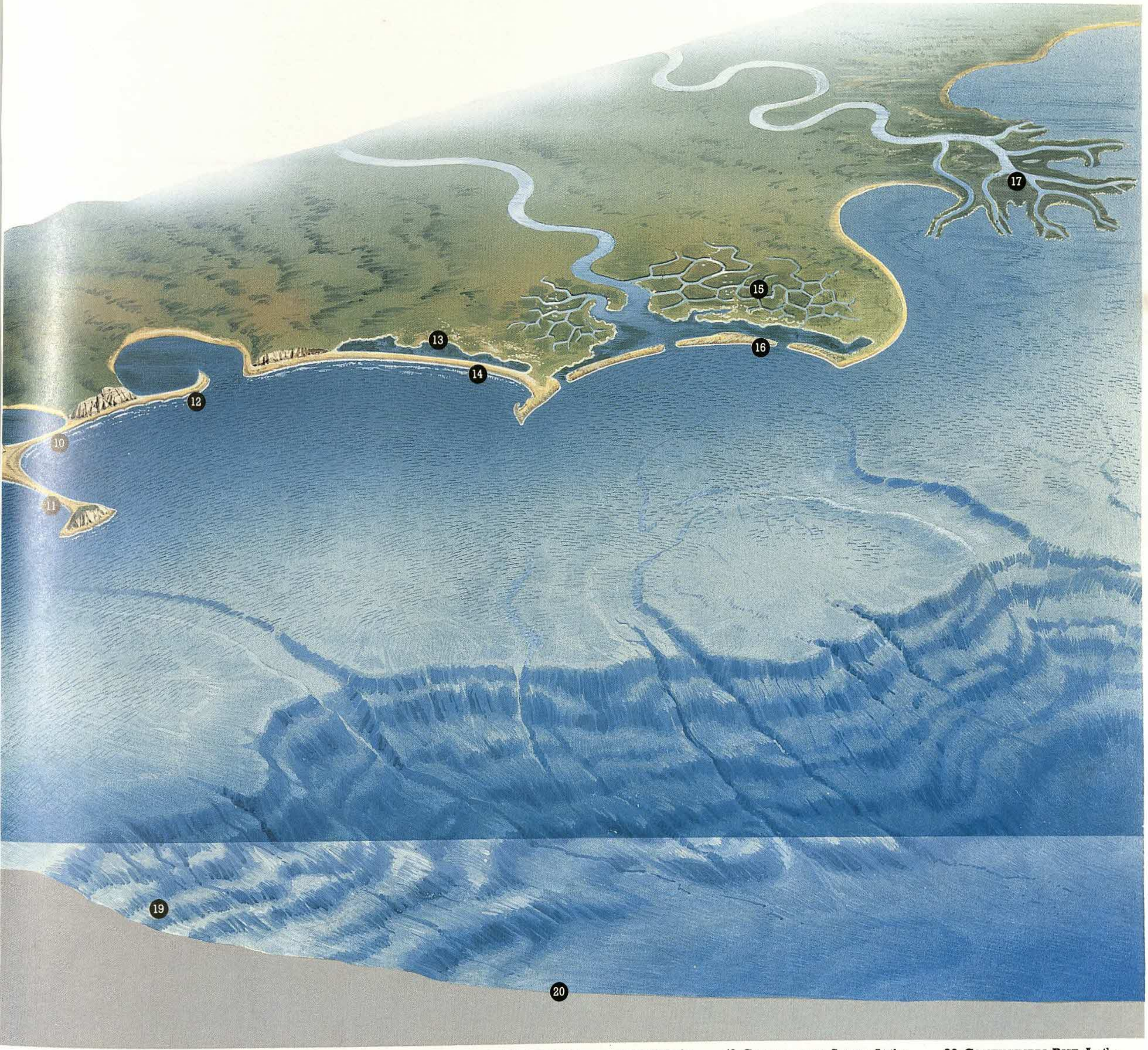

Even when waves approach land at an angle, the slope of the shore bends them almost parallel to the coast in a process known as refraction.
Water particles
Trough
Wave height
Wave length
The tottering crest curves over and crashes in a rush of surf.
As the wave slows, its length decreases and its height increases.
As deep-water waves approach the shore, the orbits of the water particles flatten.

WAVE POWER. The water particles in the sea follow an orbital movement, returning to more or less the same position from which they started. As a result, it is the energy derived from the wind, rather than the water particles themselves, that is transferred across the sea in waves.

MINERALS AND MATERIALS FROM THE SEA SHORE

The ocean is the great reservoir of global wealth. Valuable salts and minerals are washed down by the rivers and out to sea. One seventh of the world's salt is now supplied from sea water by the simple process of evaporation. And it is likely that, over the next century, man will look increasingly to the sea for other minerals and raw materials. The construction industry already uses great suction pipes on board ships to dredge aggregates, such as sand and gravel for concrete and shells for cement, from the bottom of the sea. These were deposited on the continental shelf by rivers and glaciers when the sea level was lower than it is today. The world's major sand and gravel deposits are to be found on the Atlantic coast of North America and in the North Sea.

There are yet more valuable deposits known as placers. These resilient minerals, such as gold and tin, were originally eroded from ore bodies on land and dropped on beaches or just offshore. The world's leading source of tin is from the shallow sands off Malaysia and Indonesia. Gold has been mined on the beaches of Alaska, and the volume of diamonds dredged from the sands and gravels of the West African coast now rivals that mined inland.



14. BARRIER. Barriers are similar in appearance to baymouth bars, although generally much bigger.

15. SALT MARSH. Plants colonize the land on the sheltered side of spits or barriers and filter out the sediment carried in by the rising tide. Gradually, the level of the mud flats rises.

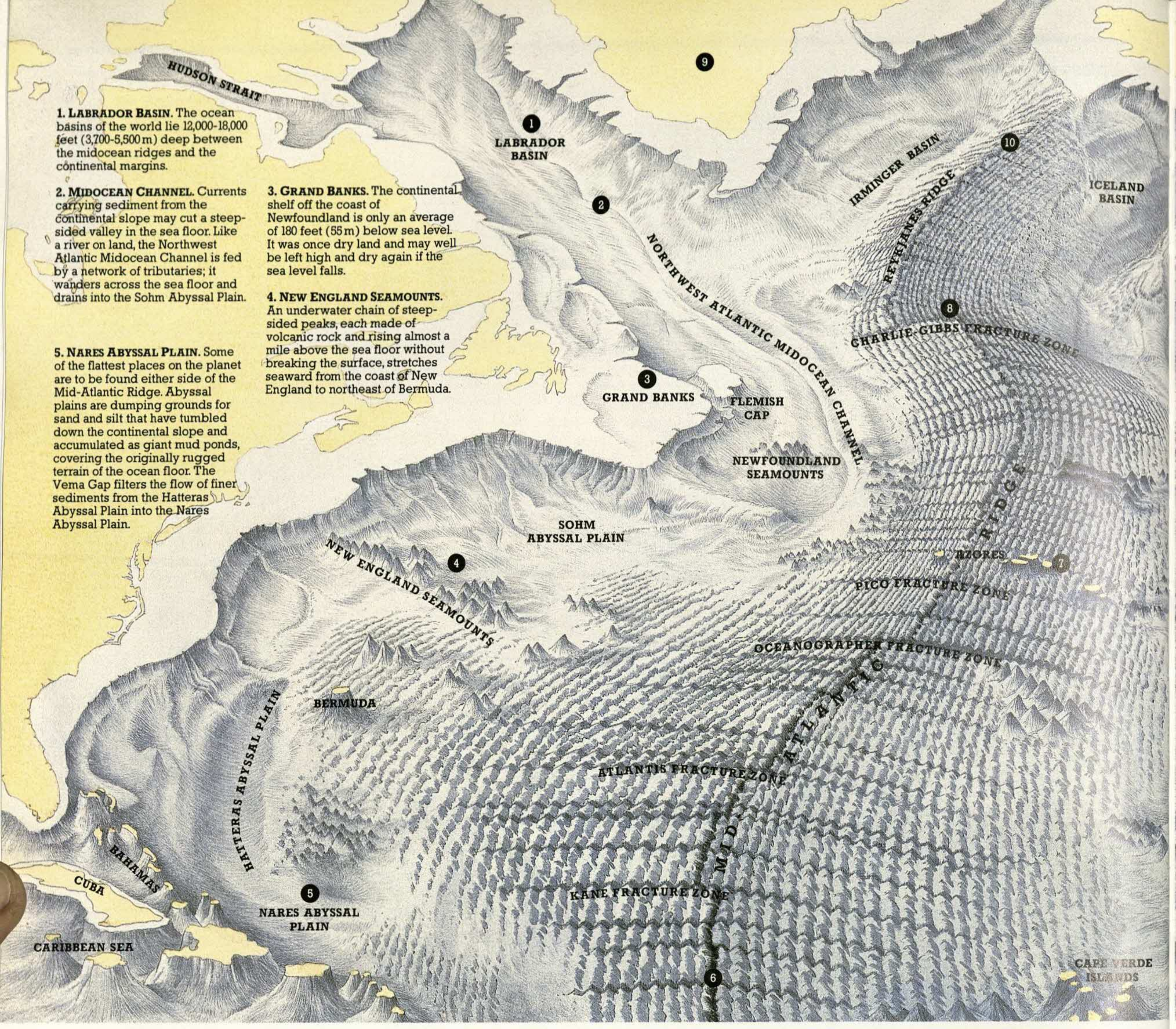
16. BARRIER ISLANDS. Sometimes – for example, at estuaries – the volume of water poured into the sea by large rivers prevents a continuous barrier from forming. Here, a chain of barrier islands, covered with sand dunes and separated from each other by tidal inlets, may be found.

17. DELTA. Where a river deposits sediments more rapidly than the sea can remove them, a delta forms. Shapes of deltas range from the cone of the Nile to the bird's foot of the Mississippi.

18. CONTINENTAL SHELF. The gently sloping platform that stretches beneath sea level toward the continental slope is known as the continental shelf.

19. CONTINENTAL SLOPE. At the shelf break, the sea floor plunges downward. Turbidity currents – underwater avalanches of sediment that have slumped downhill at speeds of up to 60 miles (100 km) per hour – have gouged steep valleys in the sides of the slope. These submarine canyons may be far bigger than the Grand Canyon.

20. CONTINENTAL RISE. As the slope's gradient becomes less steep, it merges into the continental rise – a gentle inclination dropping down toward the deep ocean floor.



1. Labrador Basin. The ocean basins of the world lie 12,000-18,000 feet (3,700-5,500 m) deep between the midocean ridges and the continental margins.

2. Midocean Channel. Currents carrying sediment from the continental slope may cut a steep-sided valley in the sea floor. Like a river on land, the Northwest Atlantic Midocean Channel is fed by a network of tributaries; it wanders across the sea floor and drains into the Sohm Abyssal Plain.

3. Grand Banks. The continental shelf off the coast of Newfoundland is only an average of 180 feet (55 m) below sea level. It was once dry land and may well be left high and dry again if the sea level falls.

4. New England Seamounts. An underwater chain of steep-sided peaks, each made of volcanic rock and rising almost a mile above the sea floor without breaking the surface, stretches seaward from the coast of New England to northeast of Bermuda.

5. Nares Abyssal Plain. Some of the flattest places on the planet are to be found either side of the Mid-Atlantic Ridge. Abyssal plains are dumping grounds for sand and silt that have tumbled down the continental slope and accumulated as giant mud ponds, covering the originally rugged terrain of the ocean floor. The Vema Gap filters the flow of finer sediments from the Hatteras Abyssal Plain into the Nares Abyssal Plain.

Atlantic: Driving Continents Apart

Drain the ocean basins of the world and you would find not a flat and featureless sea floor but a landscape as varied as that on the continents. There are hills and valleys, plains and plateaus, submarine canyons that plunge thousands of feet into the ocean bed, and volcanic islands whose peaks rear high above sea level. The midoceanic ridge, a mountain range up to 13,000 feet (4,000 m) high and 40,000 miles (65,000 km) long, is the most dramatic feature of them all; yet its existence was not known until earlier this century. It is the largest relief feature on the earth's surface, and in the Atlantic a section of it dominates the ocean bed.

Compared with the Pacific or with the Mediterranean — a remnant of an ancient sea known as Tethys — the Atlantic is a relatively young ocean. It began to form some 160 million years ago as the rifts that split the supercontinent of Pangaea widened. The process continues to this day. At the Mid-Atlantic Ridge the plates are pushed apart at the rate of about an inch (2 cm) a year, as molten rock rises from the mantle below and spreads on either side, cooling and solidifying into slivers of new oceanic crust. These are driven apart by new magma rising at the ridge.

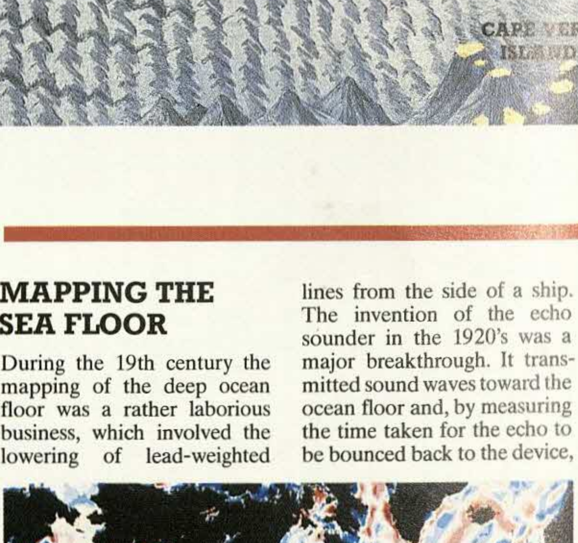
Layers of sediment deposited on the ocean floor record the history of the Atlantic. In the late 1960's the U.S. research ship *Glomar Challenger* began to drill hundreds of feet into the deep ocean bed and to remove sediment cores. These samples have since provided some of the strongest evidence for the phenomenon of sea-floor spreading. For they show that the thickness and age of the sediment on the ocean bed increase with distance from the newly formed crust at the midoceanic ridge.

Unlike the margins of the Pacific where oceanic plates collide with continents, causing earthquakes and building volcanoes, the margins of the Atlantic are quiet or "passive." Ocean and continent ride on the same plate; there is no collision.

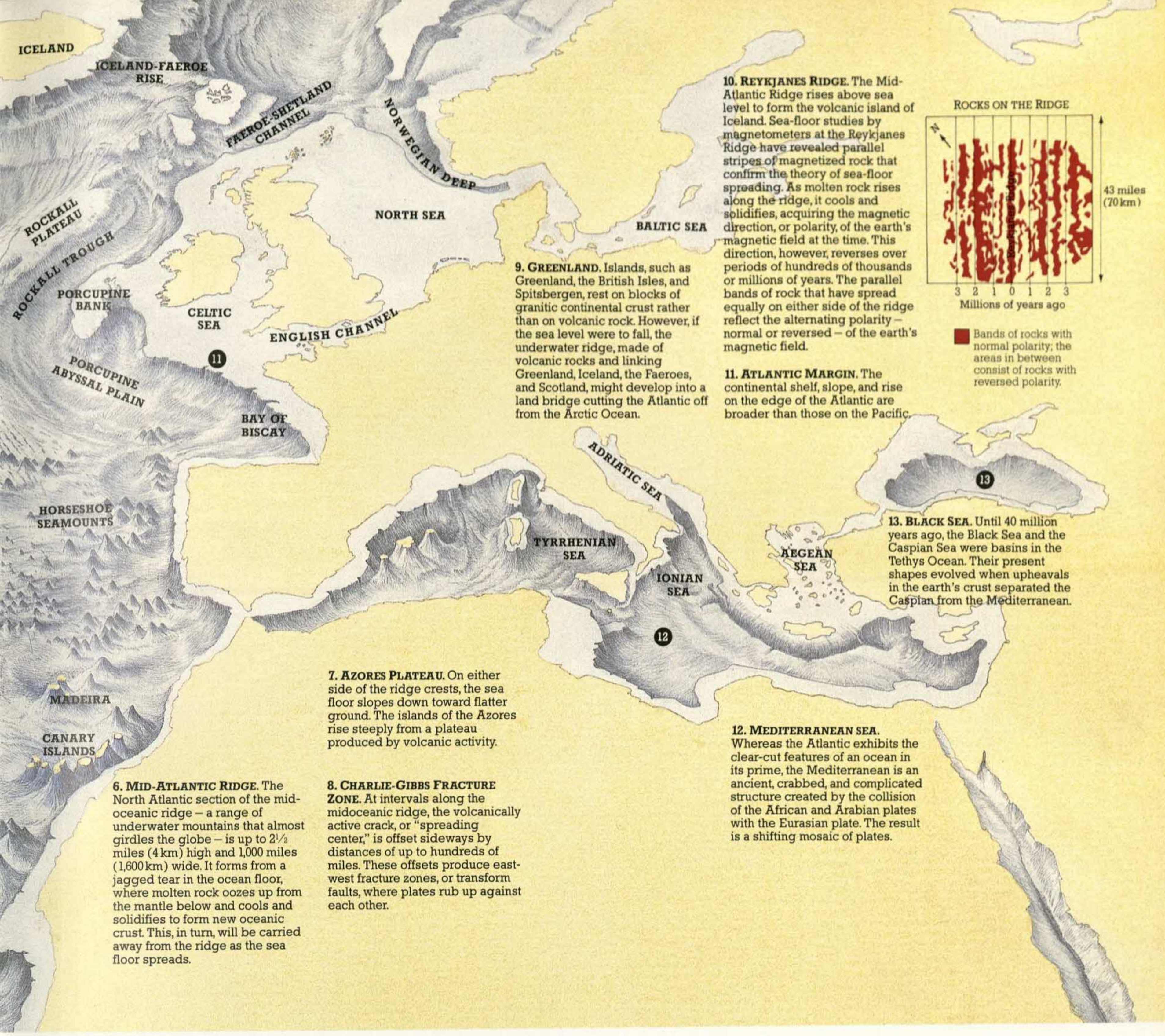
Some of the greatest rivers of the world, including the Saint Lawrence, the Mississippi, the Amazon, the Congo, and the Orinoco, disgorge loads of sediment from the continents into the Atlantic. These flow down into the deep abyssal plains, coating the sea floor and smoothing its originally rough topography. The mountains that ring the Pacific, on the other hand, cause many of the rivers on the surrounding continents to flow away from the Pacific, and the layer of sediment is thinner than that in the Atlantic.

MAPPING THE SEA FLOOR

During the 19th century the mapping of the deep ocean floor was a rather laborious business, which involved the lowering of lead-weighted lines from the side of a ship. The invention of the echo sounder in the 1920's was a major breakthrough. It transmitted sound waves toward the ocean floor and, by measuring the time taken for the echo to be bounced back to the device,



Sea Levels. Seasat data, processed by the Jet Propulsion Laboratory, show variations in the height of the sea surface, and hence of the sea floor. These range from depressions (deep blue) through the average (white) to rises (red).



10. REYKJANES RIDGE. The Mid-Atlantic Ridge rises above sea level to form the volcanic island of Iceland. Sea-floor studies by magnetometers at the Reykjanes Ridge have revealed parallel stripes of magnetized rock that confirm the theory of sea-floor spreading. As molten rock rises along the ridge, it cools and solidifies, acquiring the magnetic direction, or polarity, of the earth's magnetic field at the time. This direction, however, reverses over periods of hundreds of thousands or millions of years. The parallel bands of rock that have spread equally on either side of the ridge reflect the alternating polarity – normal or reversed – of the earth's magnetic field.

🟥 Bands of rocks with normal polarity; the areas in between consist of rocks with reversed polarity.

9. GREENLAND. Islands, such as Greenland, the British Isles, and Spitsbergen, rest on blocks of granitic continental crust rather than on volcanic rock. However, if the sea level were to fall, the underwater ridge, made of volcanic rocks and linking Greenland, Iceland, the Faeroes, and Scotland, might develop into a land bridge cutting the Atlantic off from the Arctic Ocean.

11. ATLANTIC MARGIN. The continental shelf, slope, and rise on the edge of the Atlantic are broader than those on the Pacific.

13. BLACK SEA. Until 40 million years ago, the Black Sea and the Caspian Sea were basins in the Tethys Ocean. Their present shapes evolved when upheavals in the earth's crust separated the Caspian from the Mediterranean.

7. AZORES PLATEAU. On either side of the ridge crests, the sea floor slopes down toward flatter ground. The islands of the Azores rise steeply from a plateau produced by volcanic activity.

12. MEDITERRANEAN SEA. Whereas the Atlantic exhibits the clear-cut features of an ocean in its prime, the Mediterranean is an ancient, crabbed, and complicated structure created by the collision of the African and Arabian plates with the Eurasian plate. The result is a shifting mosaic of plates.

6. MID-ATLANTIC RIDGE. The North Atlantic section of the mid-oceanic ridge – a range of underwater mountains that almost girdles the globe – is up to 2½ miles (4 km) high and 1,000 miles (1,600 km) wide. It forms from a jagged tear in the ocean floor, where molten rock oozes up from the mantle below and cools and solidifies to form new oceanic crust. This, in turn, will be carried away from the ridge as the sea floor spreads.

8. CHARLIE-GIBBS FRACTURE ZONE. At intervals along the midoceanic ridge, the volcanically active crack, or "spreading center," is offset sideways by distances of up to hundreds of miles. These offsets produce east-west fracture zones, or transform faults, where plates rub up against each other.

enabled scientists to calculate the depth.

Echo sounders have provided much of the data from which cartographers draw maps of the seabed. The reconstructions of the Atlantic floor on these pages, for example, and of the Pacific floor on the next two pages are based on a digital echo-sounder database developed by the U.S. Navy. The information was then processed by computer to produce a three-dimensional relief map, exaggerating the contours of the ocean bed. This then formed the reference basis for the artist's rendering of the ocean above.

In the past few decades, space technology has combined with developments in oceanography to give us new insights and extra detail.

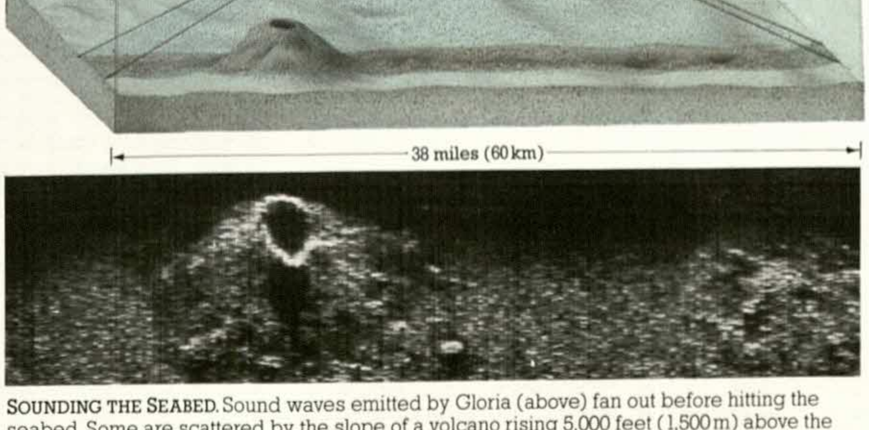
In 1978, a NASA satellite called Seasat orbited the earth for three months at a height of 500 miles (800 km). It was equipped with a radar altimeter that bounced radar pulses off the surface of the sea, measuring the distance between the satellite and the sea to within about 4 inches (10 cm). Because the orbit of the satellite was known to be so dependable, any differences in this distance were interpreted as variations in the level of the sea. When mapped, these deviations were found to correspond remarkably closely with our previous knowledge of sea-floor topography.

For example, at spreading centers, such as the Mid-Atlantic Ridge, or on the continental shelves, the surface of the sea is up to 25 feet (8 m) higher than at the deep ocean trenches or the abyssal plains. This is because the shape of the sea surface is controlled by the earth's gravitational field. The anomalies in this field, such as the higher-than-average gravity at ridge crests and the lower-than-average gravity at ocean trenches, cause the sea level there to bulge or sag. Measurements from space of the height of the sea surface can therefore provide accurate information on the landscape that lies beneath.

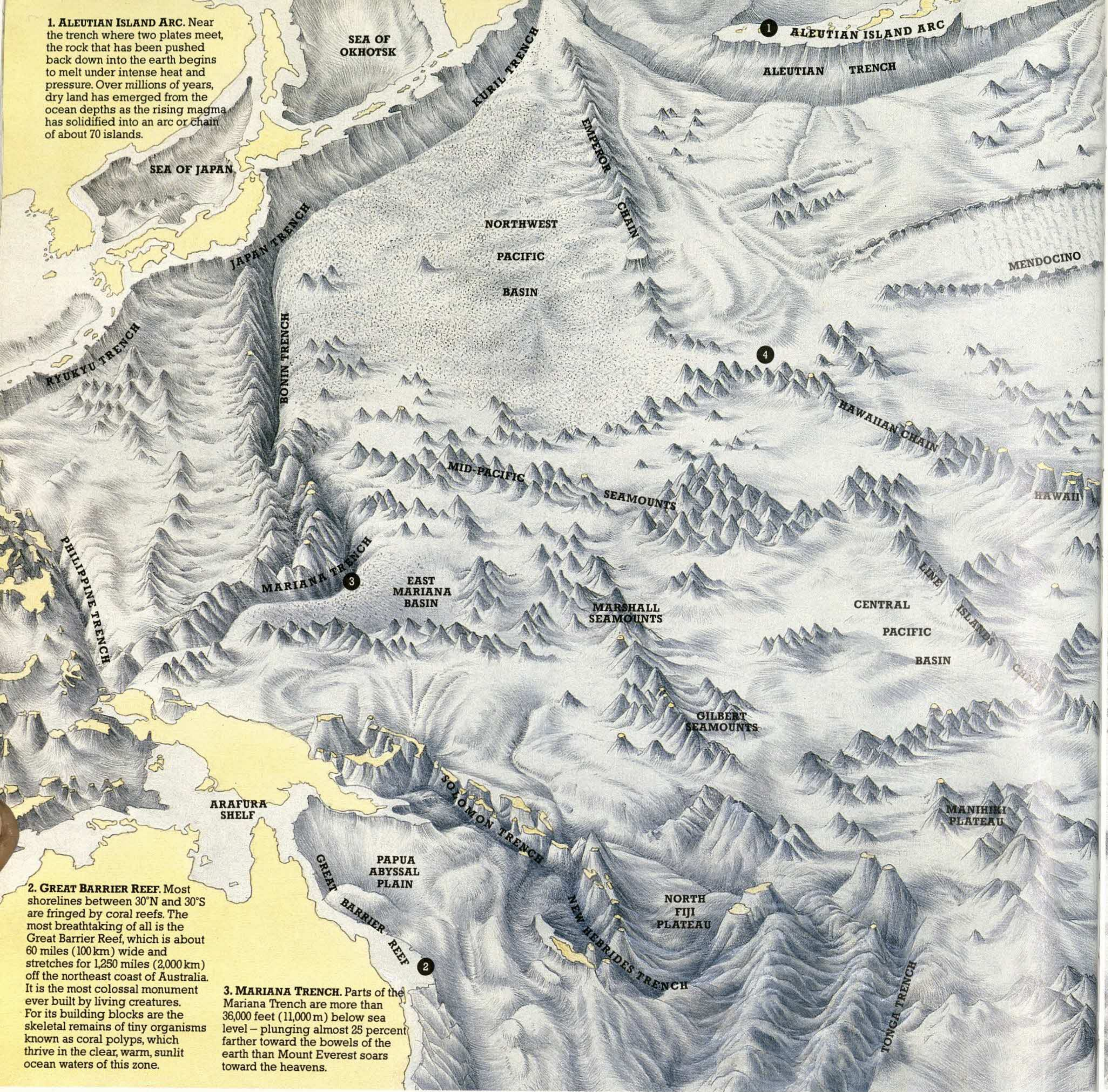
Whereas Seasat portrays large swaths of the sea floor, the sidescan sonar Gloria creates more detailed snapshots. Unlike the echo sounder, which simply beams sound waves vertically down to the seabed, it emits pulses of sound that spread out in a fan up to 19 miles (30 km) on either side of the device. The first sound waves to be reflected back off objects in their path are those almost vertically beneath the device, followed by sound waves progressively farther to port and starboard.

As Gloria is towed along by a research vessel at speeds of up to 11 miles (18 km) an hour, acoustic pictures that look like photographs of the sea floor are built up line by line. Gloria can give information about the texture as well as the topography of the seabed because some materials, such as rough lava, reflect the pulses of sound much more efficiently than beds of smooth sea-floor sediment, for example.

Since the 1960's, Gloria has answered many of the riddles of the deep. It has mapped stretches of the plate boundaries — midocean ridges, fracture zones, and deep sea trenches. It has traced the paths of submarine canyons and followed the flow over hundreds of miles of underwater rivers of muddy sediment.



SOUNDING THE SEABED. Sound waves emitted by Gloria (above) fan out before hitting the seabed. Some are scattered by the slope of a volcano rising 5,000 feet (1,500 m) above the sea floor. Echoes detected by Gloria create the acoustic image (below).



1. ALEUTIAN ISLAND ARC. Near the trench where two plates meet, the rock that has been pushed back down into the earth begins to melt under intense heat and pressure. Over millions of years, dry land has emerged from the ocean depths as the rising magma has solidified into an arc or chain of about 70 islands.

2. GREAT BARRIER REEF. Most shorelines between 30°N and 30°S are fringed by coral reefs. The most breathtaking of all is the Great Barrier Reef, which is about 60 miles (100 km) wide and stretches for 1,250 miles (2,000 km) off the northeast coast of Australia. It is the most colossal monument ever built by living creatures. For its building blocks are the skeletal remains of tiny organisms known as coral polyps, which thrive in the clear, warm, sunlit ocean waters of this zone.

3. MARIANA TRENCH. Parts of the Mariana Trench are more than 36,000 feet (11,000 m) below sea level – plunging almost 25 percent farther toward the bowels of the earth than Mount Everest soars toward the heavens.

Pacific: The Vanishing Ocean

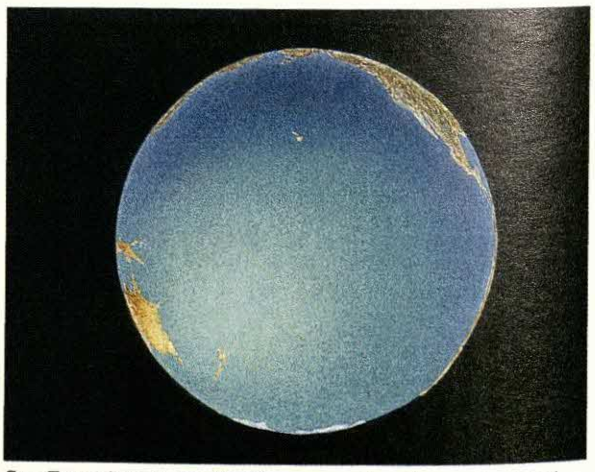
Whereas the Atlantic is still growing, the Pacific is in decline. The giant among oceans is about half the size of its ancestor, Panthalassa, which surrounded the supercontinent of Pangaea some 190 million years ago. According to most projections, the Pacific will grow smaller still. At its edges, old oceanic crust is disappearing beneath the overriding continental plates on either side. This is happening faster than the rate at which new sea floor is being created at the Pacific section of the midoceanic ridge. Like the Atlantic, the Pacific is divided by a submarine mountain range, where molten rock rises through a rift in the sea floor to form new oceanic crust. The East Pacific Rise is the portion of this ridge that runs southward from the Gulf of California.

Over the last 160 million years, the collision of plates carrying oceanic and continental crust has shaped the borders of the Pacific Ocean. On the eastern edge, it has caused the earth's crust to buckle, creating the almost unbroken mountain chains that stretch from Alaska in the north to Tierra del Fuego in the south. From the mountain ranges, a narrow continental shelf, 12-24 miles (20-40 km) wide, plunges down a steep slope toward the ocean floor.

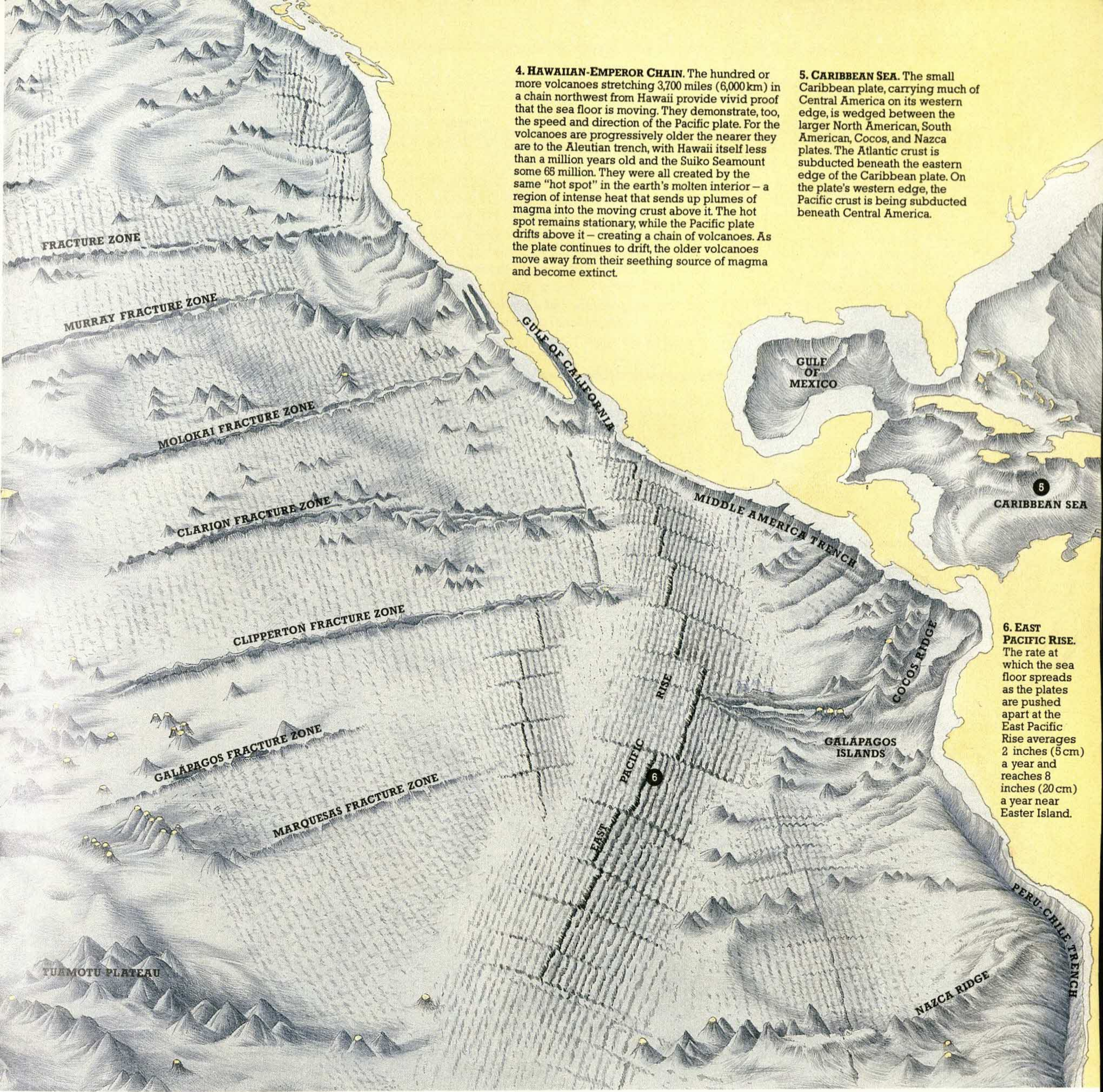
On the western edge, the devouring, or subduction, of one plate beneath another has caused deep ocean trenches to develop. These stretch from the Kuril Trench in the north to the Tonga Trench in the south. A festoon of island arcs, ranging from the Aleutians to the Philippines and enclosing a network of small seas, has risen behind the trenches. Subduction occurs all around the Pacific, causing earthquakes and volcanoes, and threatening to transform its edges into geological trouble spots. But very little subduction — and hence seismic activity — takes place around the Atlantic.

THE GIANT AMONG OCEANS

The Pacific is an ocean of superlatives. It is double the size of the Atlantic and bigger than the whole land surface of the globe. With an area of 64 million square miles (165 million sq km), it covers almost a third of the earth's surface. And its long, V-shaped trenches are the deepest places on the earth's surface.



SEA FROM SPACE. The Pacific covers almost an entire hemisphere in this view from 70,000 miles (110,000 km) in space.



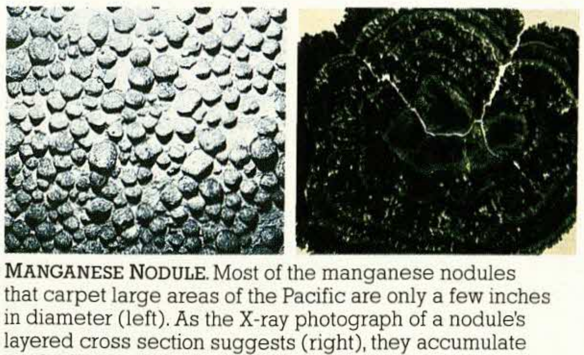
4. Hawaiian-Emperor Chain. The hundred or more volcanoes stretching 3,700 miles (6,000 km) in a chain northwest from Hawaii provide vivid proof that the sea floor is moving. They demonstrate, too, the speed and direction of the Pacific plate. For the volcanoes are progressively older the nearer they are to the Aleutian trench, with Hawaii itself less than a million years old and the Suiko Seamount some 65 million. They were all created by the same "hot spot" in the earth's molten interior – a region of intense heat that sends up plumes of magma into the moving crust above it. The hot spot remains stationary, while the Pacific plate drifts above it – creating a chain of volcanoes. As the plate continues to drift, the older volcanoes move away from their seething source of magma and become extinct.

5. Caribbean Sea. The small Caribbean plate, carrying much of Central America on its western edge, is wedged between the larger North American, South American, Cocos, and Nazca plates. The Atlantic crust is subducted beneath the eastern edge of the Caribbean plate. On the plate's western edge, the Pacific crust is being subducted beneath Central America.

6. East Pacific Rise. The rate at which the sea floor spreads as the plates are pushed apart at the East Pacific Rise averages 2 inches (5 cm) a year and reaches 8 inches (20 cm) a year near Easter Island.

THE METAL-RICH SEDIMENTS OF THE SEABED

Scientists classify the thick layer of muddy sediment that has settled on the ocean floor according to its origin. *Terrigenous* sediment is washed off the land before being carried in the water toward the ocean bed. Some settles to form reserves of minerals and raw materials on the sea shore. *Biogenous* sediment consists of the remains of tiny marine organisms that have died and sunk to their mass burial ground at the bottom of the sea. *Hydrogenous* sediment is made up of minerals that were originally leached from solid rocks, usually on land, and dissolved in sea water.



Manganese Nodule. Most of the manganese nodules that carpet large areas of the Pacific are only a few inches in diameter (left). As the X-ray photograph of a nodule's layered cross section suggests (right), they accumulate gradually, around an object on the sea floor.

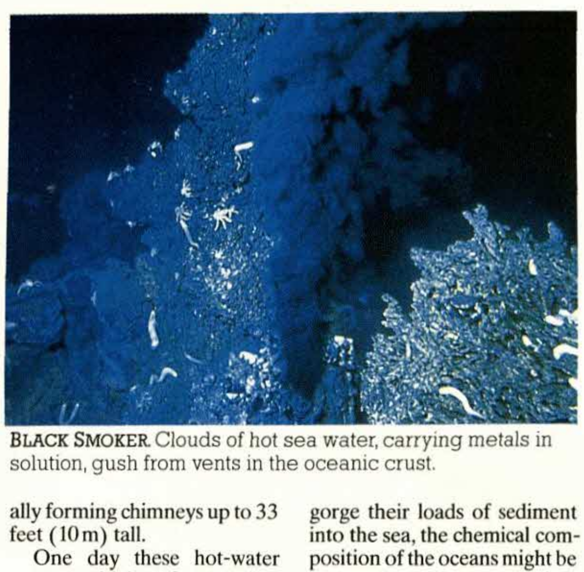
The hydrogenous sediments with the greatest economic potential are probably the blackish potato-sized lumps known as manganese nodules. These consist of minerals that have been dissolved in water and carried away by the ocean currents before crystallizing around objects on the sea bed, such as sharks' teeth or pebbles. Although the nodules grow at rates of up to only a few inches every million years, many million tons of them are produced every year. They may already cover up to 20 percent of the Pacific floor, with particular concentrations in the southwest Pacific, off the coast of southern California, and off South America.

In addition to manganese, the nodules are composed of more valuable elements such as iron, copper, cobalt, and nickel. Extraction, however, is costly and the feasibility of mining the metals of the sea floor will depend on the development of submarine robots.

Another source of metal-rich sediments, particularly in the Pacific, are the vents in the oceanic crust known as "black smokers." During the late 1970's scientists on board the deep-diving U.S. submersible *Alvin* studied portions of the East Pacific Rise near the Galápagos Islands, where smoke appeared to belch from the ocean bed.

In fact, the cloudy solution consists not of smoke but of sea water that has seeped into the cracks where new oceanic crust is being formed. At temperatures of up to 300°C, the sea water has combined chemically with the minerals within the hot rock. When the hot solution is spewed into the cold sea water above, it cools and oxidizes, and deposits sulfur, copper, iron, zinc, and manganese on the sea floor. The deposits coat the vents, eventually forming chimneys up to 33 feet (10 m) tall.

One day these hot-water vents could be of some economic importance. But, in the meantime, they have answered a question that has perplexed geochemists. As the rivers disgorge their loads of sediment into the sea, the chemical composition of the oceans might be expected to change continuously. The fact that it does not is due, in large part, to the chemical transformations that take place at the vents.



Black Smoker. Clouds of hot sea water, carrying metals in solution, gush from vents in the oceanic crust.

Currents and Tides: The Energy Balance of the Oceans

The currents in the world's oceans are the veins and arteries of a living earth. As part of our planet's system of heat exchange, they bring vast amounts of warmth from the tropics into colder latitudes that without them would be almost uninhabitable. Along with the winds, by which they are largely driven, the currents maintain the steady, balanced temperatures we experience on earth. Without them, the tropics would grow gradually hotter and the higher latitudes more and more frozen.

The scale on which the currents work is enormous. The Gulf Stream alone carries 50 to 70 times as much water as all the world's rivers put together. The great Antarctic Circumpolar Current, which girdles the earth deep in the southern latitudes, can at times be a stream well over a mile in depth and with the flow of 2,000 Mississippis. These interconnecting ocean currents are so effective at smoothing out the differences in the temperature of the oceans that 90 percent of all sea water varies by no more than 18°F.

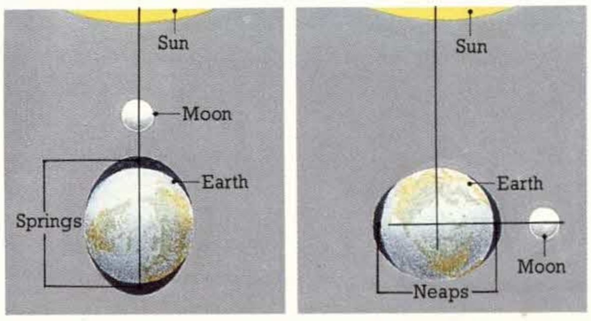
The global pattern is one of extraordinary symmetry. In each hemisphere of the world's three great oceans — the Pacific, the Atlantic, and the Indian — there are rotating whorls of surface currents called gyres. In each of these giant whirlpools, thousands of miles across, warm water moves up the western side of the ocean, cools in the higher latitudes, and is then brought back in a wide stream down the eastern side of the ocean toward the equator. Strong westward-flowing equatorial currents complete the cycle.

TIDES: THE BULGING OF THE OCEANS

Tides are caused mainly by the gravitational pull of the moon on the waters of the ocean. The attraction of the moon is strongest on the side of the earth which is facing it. Here the above-average pull causes the waters to bulge out toward the moon in a high tide. At the same time, on the far side of the earth, the moon's attraction is at its weakest and the waters on that side bulge away from the moon in an equal and opposite high tide.

In the course of just over 24 hours, the rotating earth passes through both of these liquid bulges, producing two high tides, with two low tides in between them.

The sun, too, has a gravitational effect on the earth. Although its mass is far greater than the moon's, the effect of the sun's gravity on the tides is approximately half that of the moon because it is so much farther away. When, every other week, the sun and the moon are both in line with the earth, at new and full moon, the two gravitational forces are added together, and exceptionally strong tides called springs are produced. In the intervening weeks, when the sun and the moon are at 90° to each other, at the first and third quarters of the moon, the pull of the sun cancels out half of the moon's gravitational effect, and weak tides called neaps result.



Springs and Neaps. When sun and moon are in line with earth (left), severe tides called springs occur; when they are at 90° (right), the result is lesser tides called neaps.

This theoretical pattern does not operate in every part of the world ocean. The shape of the continents prevents water from flowing uninterrupted across the surface of the planet, and this has complex effects on the regularity and number of tides. In some places, such as Southampton Water in southern England, there are four high tides in the space of 24 hours, while on the southwestern coast of Australia there is only one high tide and one low tide a day. At a few places on the ocean's surface, all the tidal forces cancel each other out, and at these "amphidromic points" the ocean tides are extremely small.

In restricted seas, such as the Mediterranean, the tides are almost imperceptible, while in other areas, such as the long and narrow Bay of Fundy in Canada, the range between high and low tide may be up to 49 feet (15 m) at springs.

The most spectacular tidal effect often occurs at the spring and autumn equinoxes, when the combined gravitational effect of the sun and moon is at its strongest. At these times, the sudden rush of water into an estuary at high tide creates a visible wavefront called a bore. The most spectacular is the one at the mouth of the Amazon, more than half a mile (1 km) wide, 16 feet (5 m) high, and sweeping inland at 13 miles (21 km) an hour.

WARM OCEAN CURRENTS

1. Gulf Stream. Waters from the tropics follow this trunk route north and then east into the North Atlantic.

2. North Atlantic Drift. The northern extension of the Gulf Stream warms the coasts of Iceland, Norway, and Spitsbergen.

3. Irminger Current. The northernmost arm of the Gulf Stream brings warmish waters to meet the cold of the Arctic Ocean.

4. Kuroshio. "The black current," Pacific equivalent of the Atlantic's Gulf Stream, brings dark tropical waters up past Japan.

5. Somali Current. In June and August, during the Southwest monsoon, the Somali current flows north, but during the winter it reverses direction.

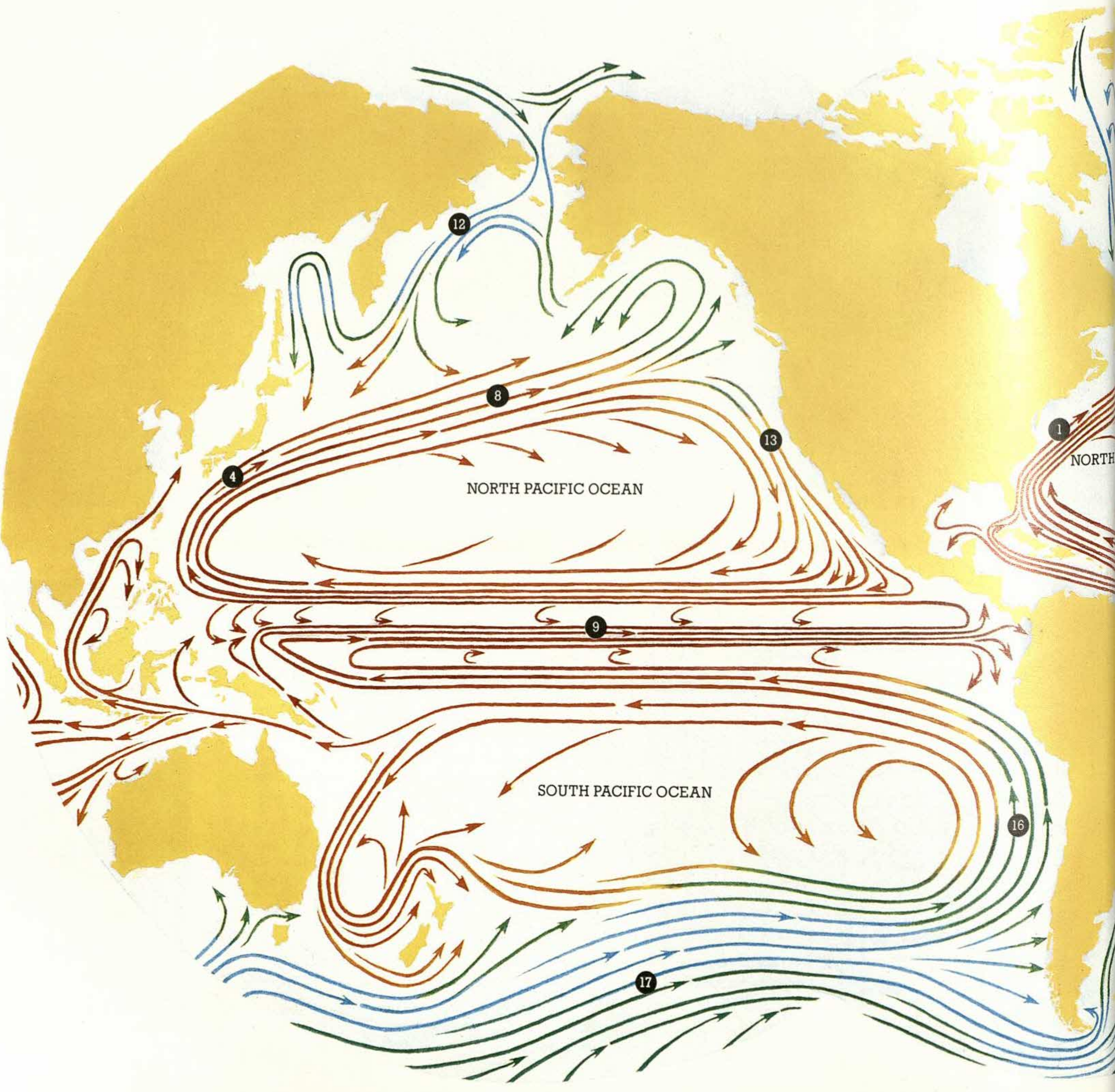
6. Agulhas Current. The strongest north-south current in the southern hemisphere stays close to the coast of southern Africa.

7. South Equatorial Current. The westward current is diverted northward by the corner of Brazil, feeding the sources of the Gulf Stream.

8. North Pacific Current. The Pacific equivalent of the North Atlantic Drift brings the warm waters of the Kuroshio to the coast of America.

9. Equatorial Countercurrent. The Trade Winds build up water on the western side of the oceans; the Equatorial Countercurrent flows eastward, restoring the balance.

10. Guinea Current. The extension of the Atlantic Equatorial Countercurrent was used by Portuguese explorers sailing down the coast of Africa.



THE DYNAMIC OCEAN

As winds blow over the surface of the sea, friction between the air and the water starts to drag the water along. This is the driving force behind most of the world's surface currents. The turning of the globe itself, however, disrupts the pattern. By a phenomenon known as the Coriolis effect, any movement in the northern hemisphere is deflected to the right and in the southern to the left, turning the currents away from the direction of the wind that produced them.

Each layer of water drags on the one below it, and at each layer the Coriolis effect continues to work. The flow turns farther and farther away from the direction of the wind until, at about 330 feet (100 m) below the surface, the flow is in the opposite direction.

The overall result of this process, which is called the Ekman spiral after its Swedish discoverer, V. W. Ekman, is that the net flow of a wind-driven current is at 90° to the wind at the surface.

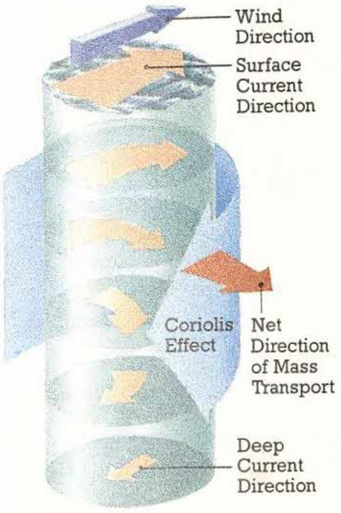
In this way the currents of the world's oceans are twisted into the great circulatory systems called gyres, which move clockwise in the northern hemisphere and counterclockwise in the southern.

Below the surface, a system of deep ocean currents is driven by variations in temperature and salinity.

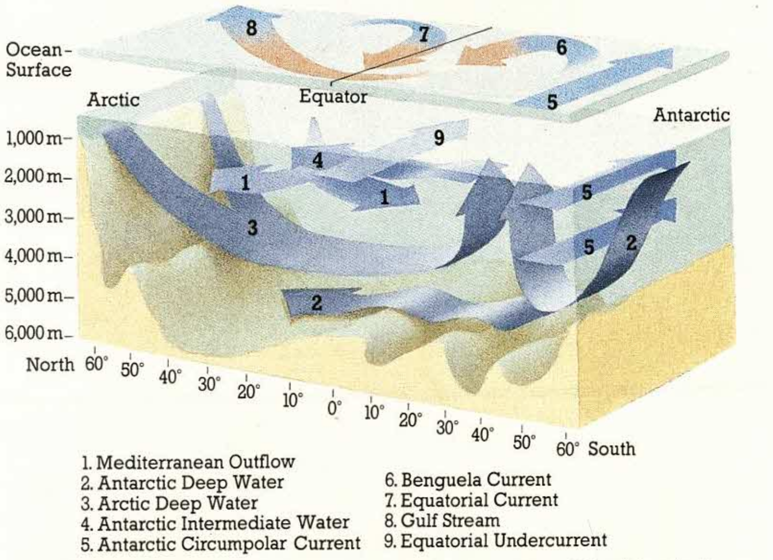
Heavy, salty water (1) flows out of the Mediterranean through the Strait of Gibraltar and spreads out at a depth of about 3,300 feet (1,000 m).

Very cold water from the poles is denser than water from warmer regions. Antarctic Deep Water (2), hugging the ocean bed, has been traced in the Atlantic as far north as Cape Cod. Arctic Deep Water (3) flows southward at a slightly lesser depth, while the rather warmer Antarctic Intermediate Water (4) flows slowly northward within 6,600 feet (2,000 m) of the surface.

The Antarctic Circumpolar Current (5) is both a surface and a deep current, penetrating to a depth of 10,000 feet (3,000 m) or more. The buildup of water in the western Atlantic from the Benguela Current (6) and the Equatorial Current (7) is released by both the Gulf Stream (8) and the powerful, eastward-flowing Equatorial Undercurrent (9).



EKMAN SPIRAL. A combination of the wind and the turning of the earth directs the currents.



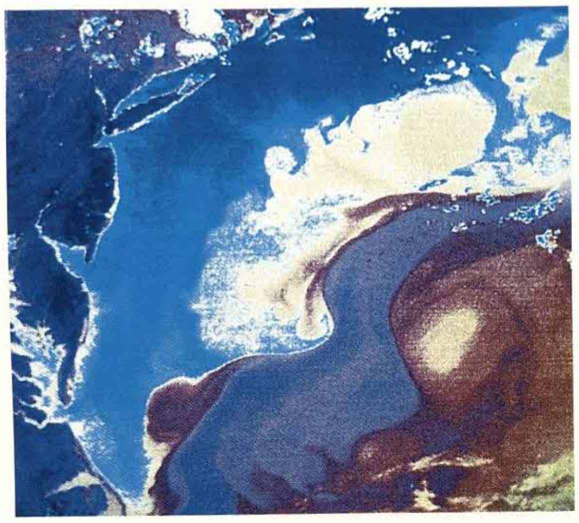
ATLANTIC INTERIOR CURRENTS. In this schematic cross-section of the Atlantic Ocean, water masses from cold or salty regions move through the body of the ocean.

GULF STREAM

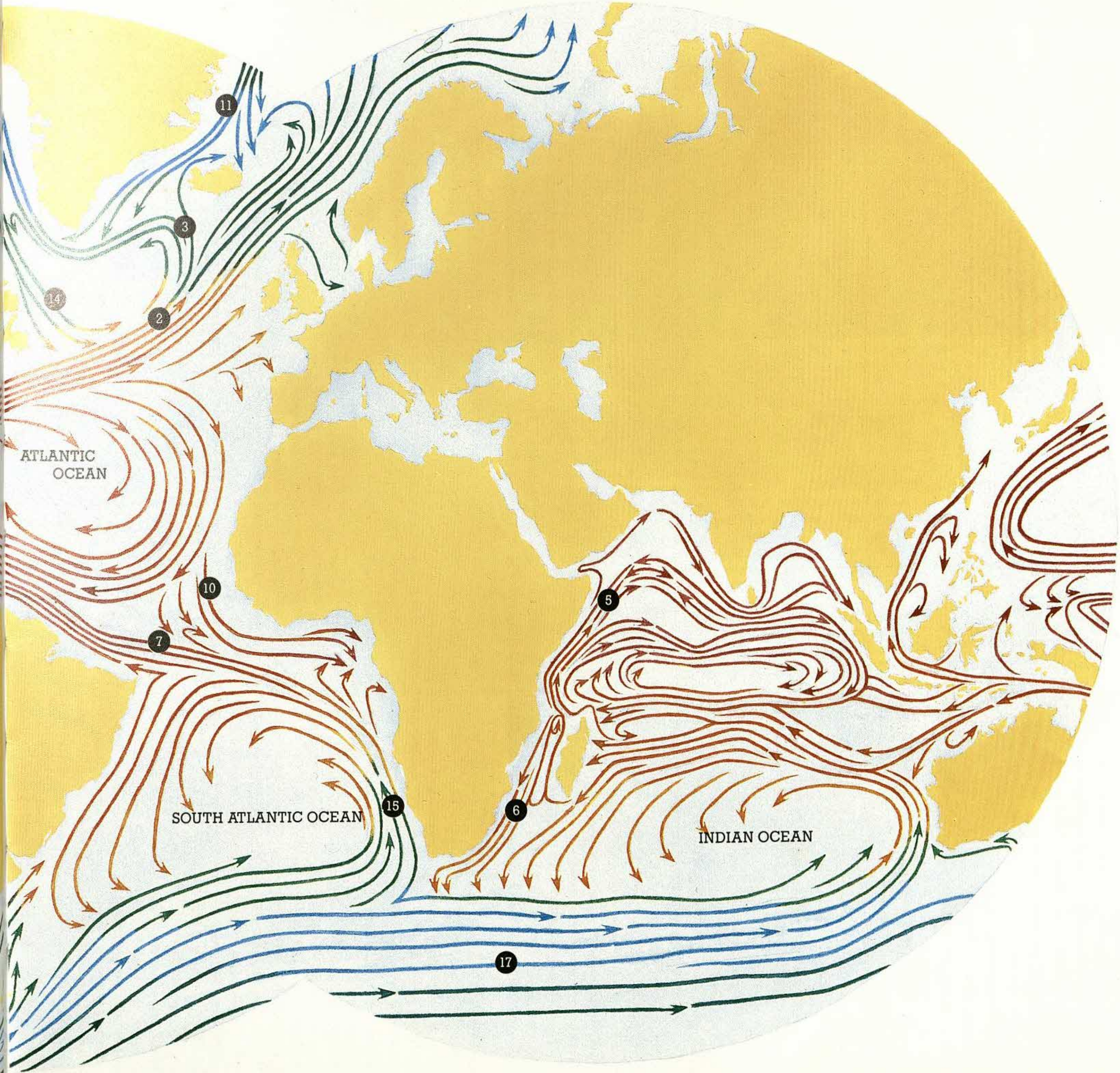
The Gulf Stream is one of the most powerful of all the world's currents, the warm benefactor of Europe, transporting massive amounts of heat toward the northern seas.

The current is the western and most concentrated arm of the great North Atlantic gyre, fed by the equatorial currents coming up from the Caribbean. At its peak, off the coast of Florida, the stream, running at about 6 mph (10 kph) and about 2,950 feet (900 m) deep, carries up to 4,200 million cubic feet (120 million cu m) of water a second. It flows in a meandering jet, but its western edge, known as the Cold Wall, can sometimes be so sharp that a U.S. Coast Guard frigate once measured a temperature difference of 22°F (12°C) between bow and stern.

North of Cape Hatteras, the stream turns eastward into the Atlantic and develops large-scale loops and eddies, 100 miles (160 km) or more across.



HOT WATERS. The Gulf Stream is shown here off the east coast of America. The false colors on the satellite image represent different temperatures: white, less than 37°F (clouds); blue, 37°-55°F (coastal waters and continental shelf); beige to brown, 55°-63°F (outer Gulf Stream); violet to black, over 63°F (core of Gulf Stream and some land).



COLD OCEAN CURRENTS

11. EAST GREENLAND CURRENT. Cold Arctic waters make their way southward into the Atlantic.

12. OYASHIO. The Pacific twin of the East Greenland Current is heavy with the cold waters moving south from the Bering Sea.

13. CALIFORNIA CURRENT. A wide, cold, and sluggish current follows the west coast of the United States as far as Baja California.

14. LABRADOR CURRENT. Cold waters and icebergs are brought down from Baffin Bay and meet the warm Gulf Stream off Newfoundland, producing the fogs of the Grand Banks.

15. BENGUELA CURRENT. The Benguela Current drives water northward and westward into midocean. This produces a strong upwelling of water and nutrients from the ocean bed, supporting enormous numbers of fish.

16. HUMBOLDT (or PERU) CURRENT. A cold current brings nutrients to the sea surface, which teems with life. Every ten years or so, complex weather conditions strengthen the warm, eastward-flowing Equatorial Countercurrent. The Humboldt Current is disrupted. The nutrients no longer rise from the ocean depths, and fish starve. Peruvian fishermen have named this disastrous phenomenon El Niño ("the Child") because of its occurrence around Christmas.

17. ANTARCTIC CIRCUMPOLAR CURRENT. The greatest current of all is driven by the Westerlies. It circles the Antarctic continent, traveling at about half a mile an hour around the Southern Ocean.

Atmosphere: The Earth's Screen

Indoors or out, everyone on earth carries an invisible burden. This is the weight of the air above us, the envelope of gases (over 99 percent nitrogen and oxygen) that we call the atmosphere. These gases, upon which the lungs of the living world depend for survival, are clutched to the surface of the planet by the earth's own gravity. They are densest toward the bottom and, at sea level, the average individual carries about a quarter of a ton of air on his head. We do not feel the burden, however, because the compensating pressure of fluids within our bodies is acting outward.

Without this multilayered and protective shield, life on earth would be very different. If there were no atmosphere to absorb or reflect back many of the sun's harmful rays, the whole planet would be a desert, baked by radiation during the day, and frozen at night as the warmth escaped unimpeded into space.

About 15 percent of the incoming radiation is absorbed by the atmosphere. A further 35 percent is reflected back into space by clouds and by the surface of land and sea. The remaining 50 percent is absorbed at sea and ground level.

As we know from the warmth of a summer evening after nightfall, the earth itself radiates the heat that it has received from the sun back into the atmosphere. The earth is cooler than the sun and hence its radiation is of a longer wavelength than the sun's. As a result, much of it is unable to pass back through the atmosphere and out into space and is trapped within the relatively thin layer immediately above us known as the troposphere.

This trapped heat is the source of energy that powers the weather machine. Air near the surface is warmed up. It collects water vapor from the lakes and oceans and rises to colder levels, where the vapor condenses as clouds. This simple mechanism lies behind the pageant of the weather — our everyday experience of the atmosphere in action.

TRICKS OF LIGHT

Blue skies, multicolored rainbows, sunsets that blaze like fire — these are all tricks of the earth's atmosphere, special effects in the stagelighting of the planet.

The sun's energy reaches the earth almost entirely in the form of electromagnetic radiation. Solar radiation flashes through space at a speed of about 186,000 miles (300,000 km) per second, traveling in waves of different length. The visible color spectrum lies between the two extremes of short-wave gamma rays and longer radio waves. Overall, the human eye is sensitive to about half of the sun's rays, perceiving them in the form of light.

Light ranges between short-wave, high-frequency violet through blue, green, yellow, and orange to long-wave, low-frequency red. "White" sunlight is really composed of the full range. As it enters the earth's atmosphere, this white light is refracted, or bent, by different angles according to its component wavelengths. Objects then appear in different colors according to which wavelengths they reflect. Green grass, for example, reflects only medium-frequency green wavelengths, absorbing the high and low frequencies.

The English scientist Sir Isaac Newton (1643–1727) demonstrated how light can be refracted and separated into its various wavelengths by passing sunlight through a clear glass prism to produce the color spectrum on a blank wall. Rainbows are created in the same way, as the natural prism of raindrops hanging in the air separates out an arc of colors. Refraction can also cause a "halo" or ring of colored light to appear around the sun or moon. This is usually caused by a veil of ice particles in the atmosphere.

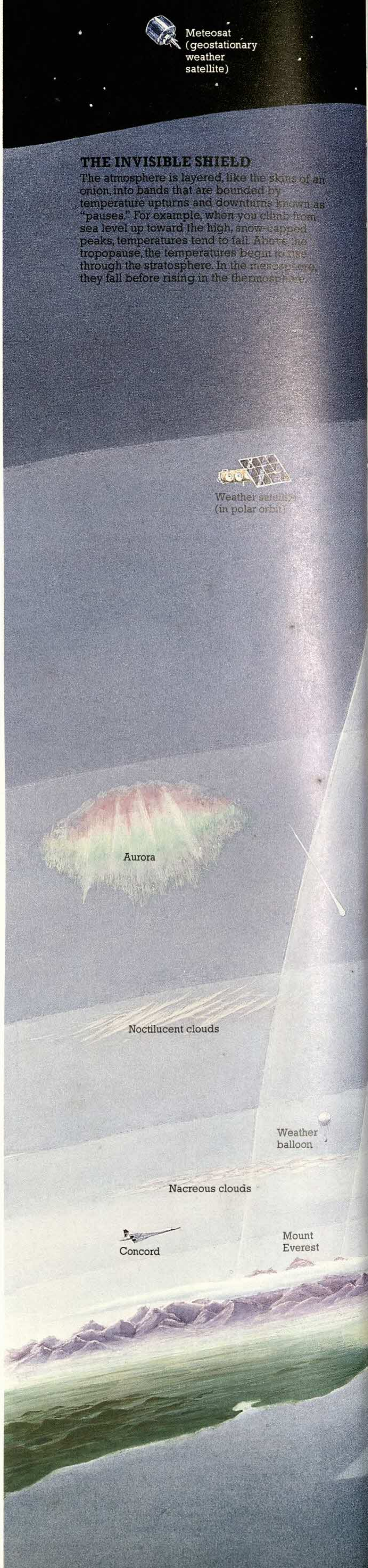
When the air is clean and free of moisture, the sky appears blue overhead. This is because air molecules themselves scatter sunlight, and do so most efficiently at the high-frequency blue or violet end of the spectrum. Water droplets and specks of dust, on the other hand, scatter light in all its wavelengths, so that the sky often appears whitish. On some quiet summer evenings, as the sun sets on the horizon, its beams have to travel through a lot of atmosphere before they reach the eye. The relatively large dust particles that have accumulated in the still skies scatter the longer red wavelengths, creating a deep red glow.

Tricks of light are not confined to color alone. Perhaps the most uncanny optical phenomena are mirages. Light bends as it travels between air layers of differing temperatures and densities. Over deserts and oceans, heat may cause beams of light to bend so that images, even of objects beyond the horizon, are brought into view; this is called a superior mirage. Inferior mirages are seen below the real object, and upside down. We have all seen mirror images of the sky, shimmering above the hot surface of a road to create the illusion of a lake.

DOUBLE RAINBOW. Raindrops, acting as natural prisms, refract and split up the sunlight, creating a double arc of color above the Cape Peninsula, South Africa.

ICEBERG MIRAGE. The images of two icebergs beyond the horizon float in the layer of air above Antarctica.

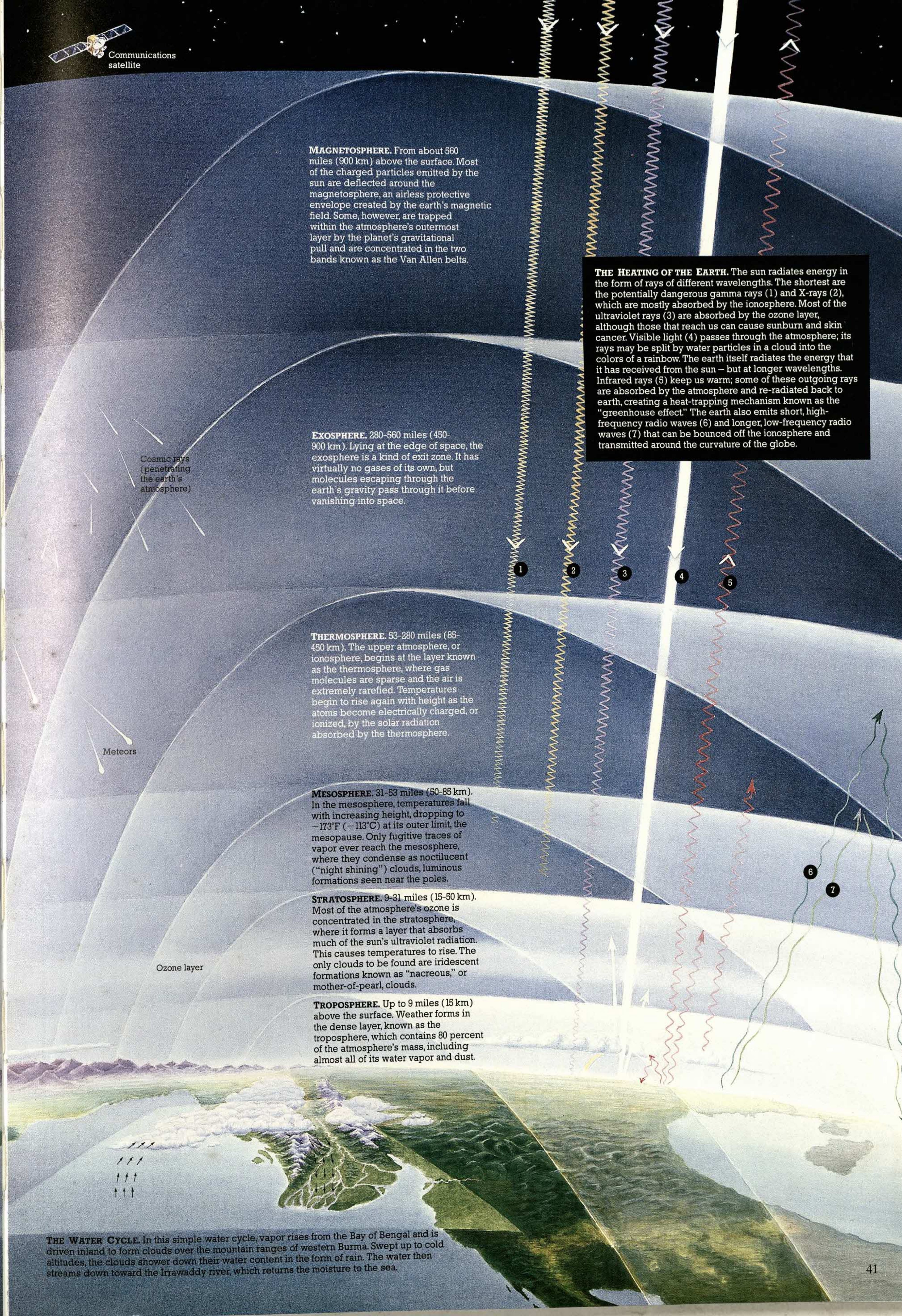
HALO AT SUNSET. Ice crystals in the air above Spitsbergen refract the light, causing a halo around the setting sun.



THE INVISIBLE SHIELD

The atmosphere is layered, like the skins of an onion, into bands that are bounded by temperature upturns and downturns known as "pauses." For example, when you climb from sea level up toward the high, snow-capped peaks, temperatures tend to fall. Above the tropopause, the temperatures begin to rise through the stratosphere. In the mesosphere, they fall before rising in the thermosphere.

Meteosat (geostationary weather satellite)
Weather satellite (in polar orbit)
Aurora
Noctilucent clouds
Weather balloon
Nacreous clouds
Concord
Mount Everest



MAGNETOSPHERE. From about 560 miles (900 km) above the surface. Most of the charged particles emitted by the sun are deflected around the magnetosphere, an airless protective envelope created by the earth's magnetic field. Some, however, are trapped within the atmosphere's outermost layer by the planet's gravitational pull and are concentrated in the two bands known as the Van Allen belts.

THE HEATING OF THE EARTH. The sun radiates energy in the form of rays of different wavelengths. The shortest are the potentially dangerous gamma rays (1) and X-rays (2), which are mostly absorbed by the ionosphere. Most of the ultraviolet rays (3) are absorbed by the ozone layer, although those that reach us can cause sunburn and skin cancer. Visible light (4) passes through the atmosphere; its rays may be split by water particles in a cloud into the colors of a rainbow. The earth itself radiates the energy that it has received from the sun – but at longer wavelengths. Infrared rays (5) keep us warm; some of these outgoing rays are absorbed by the atmosphere and re-radiated back to earth, creating a heat-trapping mechanism known as the "greenhouse effect." The earth also emits short, high-frequency radio waves (6) and longer, low-frequency radio waves (7) that can be bounced off the ionosphere and transmitted around the curvature of the globe.

EXOSPHERE. 280-560 miles (450-900 km). Lying at the edge of space, the exosphere is a kind of exit zone. It has virtually no gases of its own, but molecules escaping through the earth's gravity pass through it before vanishing into space.

THERMOSPHERE. 53-280 miles (85-450 km). The upper atmosphere, or ionosphere, begins at the layer known as the thermosphere, where gas molecules are sparse and the air is extremely rarefied. Temperatures begin to rise again with height as the atoms become electrically charged, or ionized, by the solar radiation absorbed by the thermosphere.

MESOSPHERE. 31-53 miles (50-85 km). In the mesosphere, temperatures fall with increasing height, dropping to −173°F (−113°C) at its outer limit, the mesopause. Only fugitive traces of vapor ever reach the mesosphere, where they condense as noctilucent ("night shining") clouds, luminous formations seen near the poles.

STRATOSPHERE. 9-31 miles (15-50 km). Most of the atmosphere's ozone is concentrated in the stratosphere, where it forms a layer that absorbs much of the sun's ultraviolet radiation. This causes temperatures to rise. The only clouds to be found are iridescent formations known as "nacreous," or mother-of-pearl, clouds.

TROPOSPHERE. Up to 9 miles (15 km) above the surface. Weather forms in the dense layer, known as the troposphere, which contains 80 percent of the atmosphere's mass, including almost all of its water vapor and dust.

THE WATER CYCLE. In this simple water cycle, vapor rises from the Bay of Bengal and is driven inland to form clouds over the mountain ranges of western Burma. Swept up to cold altitudes, the clouds shower down their water content in the form of rain. The water then streams down toward the Irrawaddy river, which returns the moisture to the sea.

Weather: The Restless Air

The air is an ocean, and its currents are the winds. We live on the floor of this great sea, buffeted by its streams, subject to its vast atmospheric swirling, and dependent on the life-giving rain it brings us.

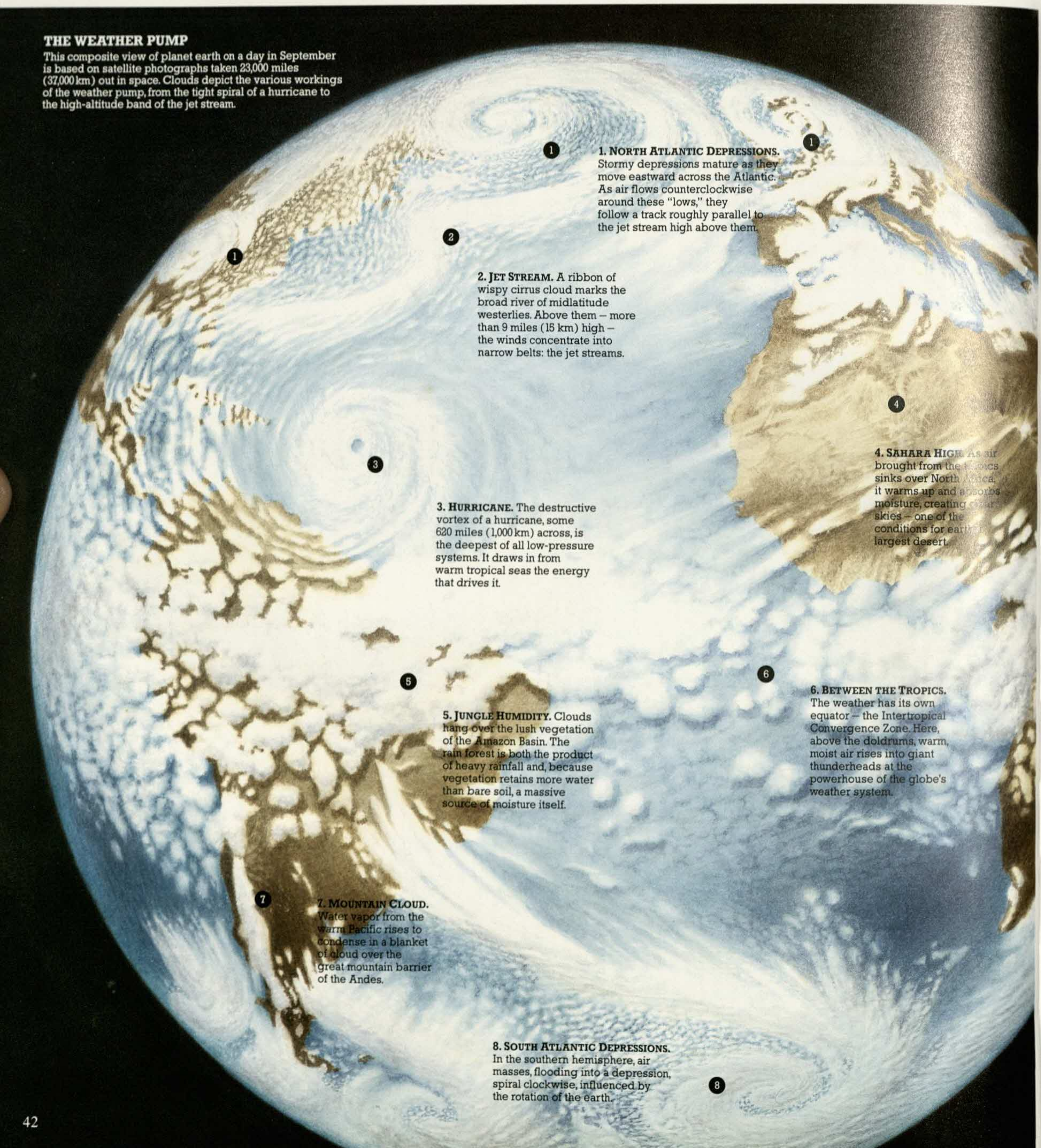
Nothing is more famously capricious than the weather, but behind even its most sudden and unpredictable changes, there is a system at work. Two principles lie behind the movements of the weather machine: hot air rises because it is lighter than its surroundings, and air packed relatively tightly into a region of high pressure tends to flow out of it into stormy "lows." Air movements produced by these two principles can exist at almost every size — from a plume of air rising above the heat of an electric light bulb to a giant current girdling the entire planet.

On a global scale, this restlessness of the atmosphere takes the form of a giant heat exchange, in which hot air is moved poleward from the tropics and cold air moves from the poles toward the equator. This redistribution of the world's energy helps to maintain a balanced overall temperature for the earth. Without it, the tropics would become increasingly hot and the middle latitudes increasingly cold.

The weather is a complex system, influenced by a number of factors. Chief among them are the spinning of the planet from west to east, a movement that helps to direct the winds; the fact that the sea gains and gives up its heat more slowly than the land; the ocean currents, which both are dependent on the winds and influence the winds themselves, helping to carry heat into the colder parts of the earth; and the existence of great mountain ranges, which disturb and disrupt the worldwide movements of the air.

THE WEATHER PUMP

This composite view of planet earth on a day in September is based on satellite photographs taken 23,000 miles (37,000 km) out in space. Clouds depict the various workings of the weather pump, from the tight spiral of a hurricane to the high-altitude band of the jet stream.



1. North Atlantic Depressions. Stormy depressions mature as they move eastward across the Atlantic. As air flows counterclockwise around these "lows," they follow a track roughly parallel to the jet stream high above them.

2. Jet Stream. A ribbon of wispy cirrus cloud marks the broad river of midlatitude westerlies. Above them – more than 9 miles (15 km) high – the winds concentrate into narrow belts: the jet streams.

3. Hurricane. The destructive vortex of a hurricane, some 620 miles (1,000 km) across, is the deepest of all low-pressure systems. It draws in from warm tropical seas the energy that drives it.

4. Sahara High. As air brought from the tropics sinks over North Africa, it warms up and absorbs moisture, creating clear skies – one of the conditions for earth's largest desert.

5. Jungle Humidity. Clouds hang over the lush vegetation of the Amazon Basin. The rain forest is both the product of heavy rainfall and, because vegetation retains more water than bare soil, a massive source of moisture itself.

6. Between the Tropics. The weather has its own equator – the Intertropical Convergence Zone. Here, above the doldrums, warm, moist air rises into giant thunderheads at the powerhouse of the globe's weather system.

7. Mountain Cloud. Water vapor from the warm Pacific rises to condense in a blanket of cloud over the great mountain barrier of the Andes.

8. South Atlantic Depressions. In the southern hemisphere, air masses, flooding into a depression, spiral clockwise, influenced by the rotation of the earth.

WHERE THE WINDS BLOW

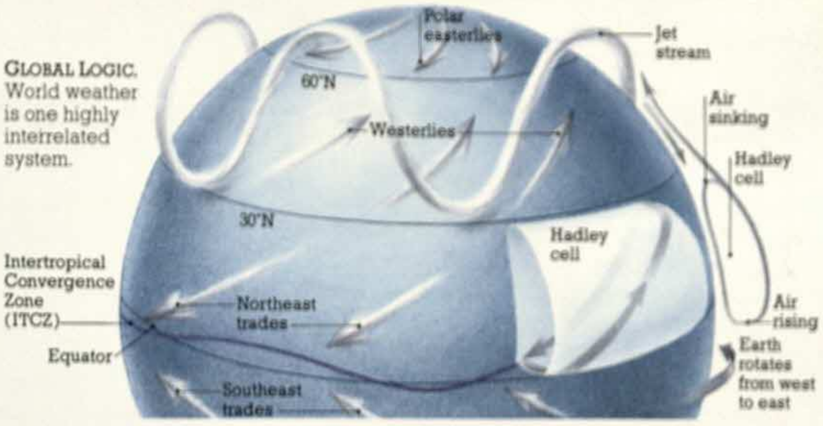
The weather machine is powered by the difference in temperature between the tropics and the poles. In the tropics, hot, moisture-laden air rises from the zone near the equator, where land and sea are at their warmest, helping to create an area of low pressure there. The risen air then spreads north and south, at a height of 9 miles (15 km), to about 30° latitude, where it begins to sink. These are the first links in the major subtropical circulation system known as a Hadley cell. The full cycle is completed by the trade winds that blow in at the surface, toward the equatorial region of low pressure, called the Intertropical Convergence Zone. Nearer the poles than 30° latitude, the Hadley cell system breaks down, disrupted by the rotation of the earth.

Our planet spins on its axis from west to east once a day. As a result, a point on the equator moves at 1,030 miles (1,657 km) an hour; but a point nearer the pole, where the planet's girth is smaller, does not need to move as fast to make a complete rotation in the space of a day. New York is moving much more slowly than Brasilia, for example.

Imagine for a moment a block of air that begins to move northward from the equator in Brazil toward New York. It will tend to keep some of its original momentum, moving eastward across the earth close to its equatorial speed even in the more sluggish northern latitudes. The result, when it arrives over New York, is that it appears — to observers on the ground — to be moving rapidly from west to east as a strong west wind.

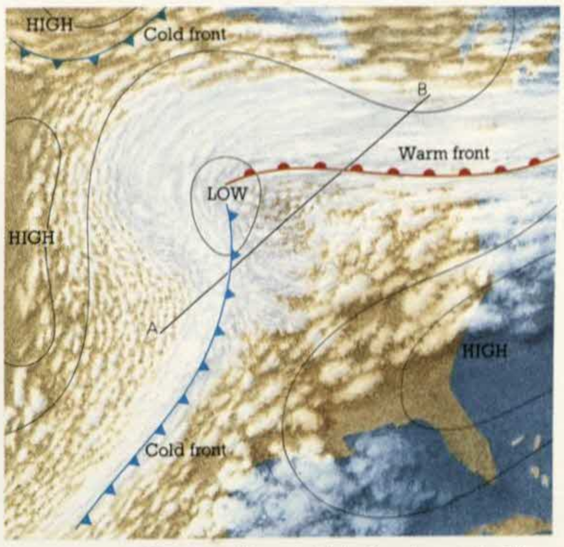
The result of this phenomenon, known as the Coriolis effect, is that winds curve under the influence of the earth's rotation — to the right in the northern hemisphere, to the left in the southern.

Poleward of 30° latitude, the Coriolis effect becomes so severe that another global weather pattern takes over from the Hadley cell. Long waves, moving in a broad ribbon of westerly winds, concentrate near the tropopause into the fast-moving bands of the jet streams. These "planetary waves," measuring up to 3,100 miles (5,000 km) from crest to crest, girdle each hemisphere of the planet and transfer large amounts of heat to earth's temperate regions.


GLOBAL LOGIC. World weather is one highly interrelated system.

ANATOMY OF A DEPRESSION

As the jet stream accelerates high above the earth, it draws air up away from the surface and a region of low pressure develops beneath it. Cold polar air swings toward this new low from the north, while warm tropical air is drawn from the south. As the air masses flow into the depression, they are deflected by the rotation of the earth. The result is that winds in depressions move counterclockwise in the northern hemisphere and clockwise in the southern.


CHARTING THE WEATHER. The cold (blue) and warm (red) fronts of a depression converge above the United States. Section A-B is shown in the illustration below.

As the depression matures, the boundaries between the air masses become quite distinct and they come to form "fronts," the hallmark of a depression and the source of much of the bad weather to be found in middle latitudes.

At the warm front, the tropical air mass climbs gradually, producing a succession of clouds whose structure changes with altitude. From the ground, the first signs of an approaching depression are the high wisps of cirrus clouds, followed by the banks of altocumulus — commonly known as mackerel sky — and altostratus, then stratus, and finally the heavy blanket of nimbostratus, which drops the light and widespread rain that is typical of a warm front.

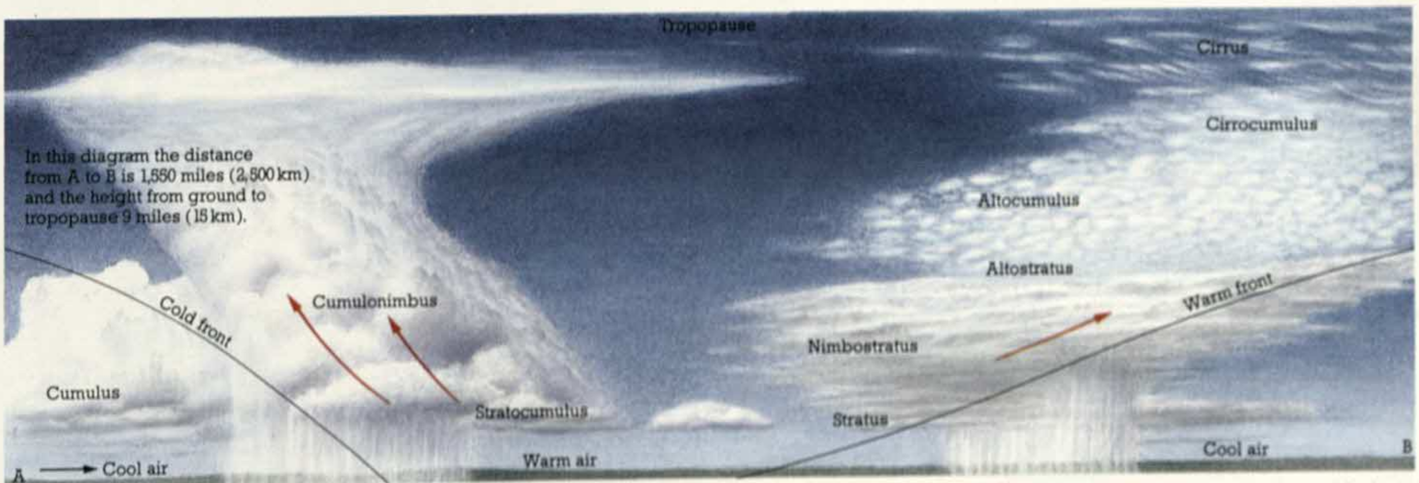
At the cold front of the depression, the warm air climbs steeply above the wedge of cold air pushing in below it. The rapid ascent of the relatively warm air cools it, and the water vapor condenses. Cumulonimbus clouds are produced which may tower as far as the tropopause — 9 miles (15 km) above the earth — where they will spread out in the shape of an anvil.

VICIOUS TWISTER. The long limb of a tornado reaches down to farmland in the American Midwest.

It is in these buoyant clouds that the great thunderstorms of the cold front occur. The rapidly cooled air releases large amounts of rain, which drops through the cloud, creating a downdraught of cold air that fans out from the base of the storm in a gusty squall.

Under certain conditions, currents within the storm can carry droplets up and down inside it. At high altitudes the droplets freeze to become ice pellets. Each time around, the pellets acquire another skin of ice until eventually they become too heavy and fall from the storm as hail.

At other times, the energies of a thunderstorm, derived from the meeting of cold and warm air masses, can be concentrated into the extraordinary destructiveness of a tornado, a narrow funnel of extreme low pressure.


In this diagram the distance from A to B is 1,550 miles (2,500 km) and the height from ground to tropopause 9 miles (15 km).

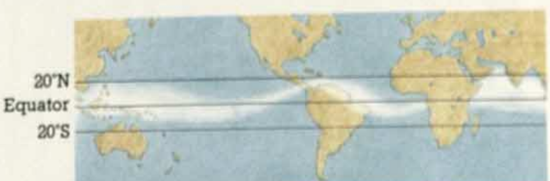
WEATHER SLICE. The movements of air masses within a depression are quite distinct. On the left, the cold nose of polar air pushes in under a warmer block that rises steeply above it, creating the violence of a thunderstorm. On the right, at the warm front, the ascent is far more gradual and the weather gentler.

HURRICANES AND THEIR BREEDING GROUNDS

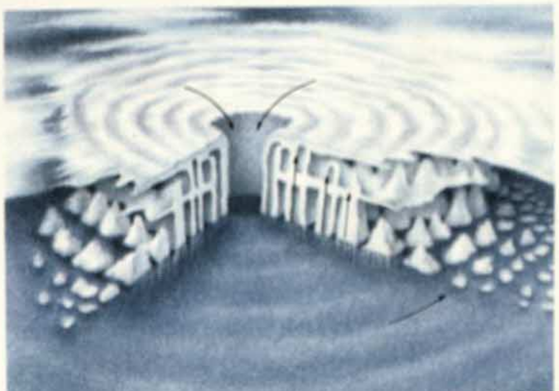
Only near the Intertropical Convergence Zone do conditions occur in which a ripple of instability in the air can become a storm strong enough to devastate whole cities. The sea there has a surface temperature of over 80°F (27°C), above which an intense area of low pressure can develop into a storm. It is also far enough from the equator for the earth's spin to make the young storm rotate.

Water vapor from the warm sea is drawn into the areas of low pressure. It rises and condenses into banks of clouds — intensifying the inward flow of air. Energy is released in torrential downpours and in winds that have been measured at up to 190 miles (300 km) an hour. In the central "eye" of the storm, however, the skies are still and clear.

A hurricane cuts a great curving swath across sea and sometimes, devastatingly, land, spending its force after six days or so when it runs out of fuel — the energy provided by the warm tropical water.



NURSERIES OF DESTRUCTION. The tropical cyclone — called a hurricane in the Atlantic, a typhoon in the Pacific, and a cyclone in the Indian Ocean — breeds in a worldwide belt.


HURRICANE FORCE. Banks of cumulonimbus clouds spiral around the eye of the hurricane. The violent updraughts created within the storm draw in more warm, humid air.

Climate: Clothing the Landscape

Weather can change from day to day. Climate, however, is much slower to shift, for it is the average of a region's weather pattern: its seasonal temperatures and rainfall over many years. It influences all aspects of our lives, determining everything from the sort of roofs we put on our houses to worldwide patterns of human settlement.

Animal life has evolved in response to the demands of climate and its effect on vegetation. Fresh water is essential to human survival, and the most densely populated areas of the world are, in general, well served by water. Fertile river valleys cradled the first civilizations of Mesopotamia, the Indus valley, Egypt, and China.

These were warm, lowland cultures that arose in areas with rich, alluvial soils produced by annual floods. However, their settled populations lived close to nomadic tribes from the harsher climates of desert, mountain, and steppe. Conflicts between town and tent-dweller occurred again and again in the ancient world. When civilization spread to the Mediterranean, Greeks and Romans came to dread the restless horsemen who surged in waves from the cool, dry immensities of the Asian steppes. Indeed, some of the mightiest Old World encounters between civilization and "barbarism" can be seen as clashes of climate, shaping the course of modern history.

Scientists classify different types of climate, ranging from the polar to the tropical. But the distribution of these types is based on much more than latitude alone. For example, the desert wilderness of Sinai, the snow-capped summit of Mount Everest, and the junglelike forests of Florida all lie roughly 28°N of the equator. The marked differences between these places illustrate something of the complexity of climate on earth.

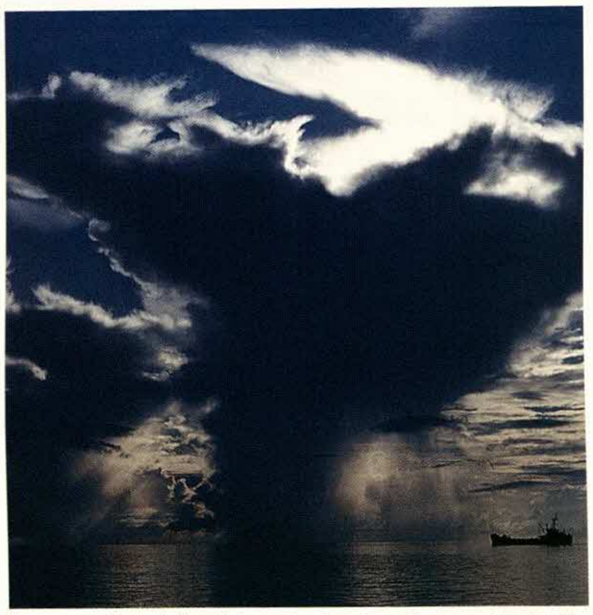
MONSOON: CLIMATIC GEAR CHANGE

The word "monsoon" derives from the Arabic *mausim,* meaning season, and describes any noticeably seasonal wind which blows over a large climatic region. More specifically, however, the word refers to the wind system of India and southern Asia, which produces two seasons a year. One is dry and the other is wet. If the latter delivers too much or too little of its vital moisture load, the results can be catastrophic.

In June, during the northern hemisphere summer, hot air rises in immense volumes from the Asian land mass, helping to create an area of low pressure. Moist monsoon winds then blow in from the Indian Ocean toward the low-pressure area and shed their water content in torrents over the thirsty earth. Some sites on the slopes of the Himalayas, for example, routinely receive over 400 inches (10 m) of rain a year.

In January, during the northern hemisphere winter, the winds perform their seasonal gear change and go into reverse. Cool, dry air sinks over Asia and spills south to create the winds that produce the dry season.

Rice is a crop that requires hot sun and heavy rain in succession. It is grown in vast quantities throughout the monsoon zone, on swampy paddy fields and on terraces that are flooded ankle-deep during the rainy season. Millions of people rely for sustenance upon the coming of the rains, but their times of arrival and quantities can be unpredictable. Too little, too late, can cause widespread drought and famine. Too much can cause devastating floods.

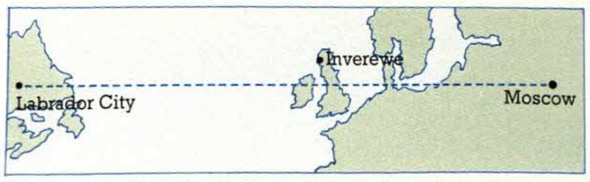


PROMISED RAIN. Life-giving rain clouds gather over the Gulf of Thailand. Without them, southeast Asia would starve.

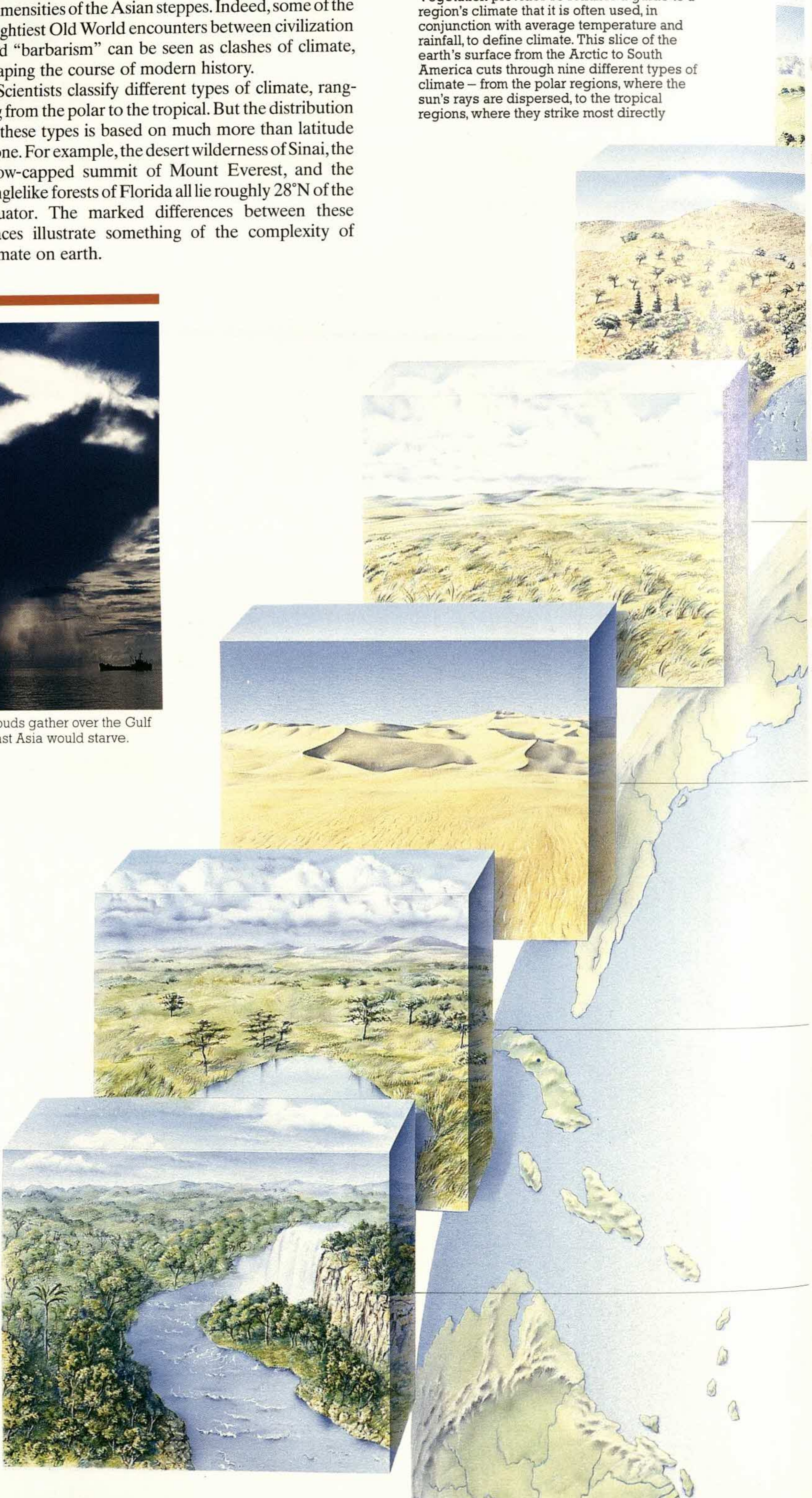
MICROCLIMATE: POCKET WEATHER

Inverewe, on the northwest coast of Scotland, lies at a latitude farther north than Moscow or Labrador City. Yet it boasts gardens where palm, bamboo, eucalyptus, and other subtropical plants flourish in the open air. The paradox is not hard to explain, for Britain has a maritime climate which protects it from great extremes of hot and cold. Inverewe's shores, moreover, are caressed by the great Gulf Stream, a warm ocean current originating off Florida.

A map of world climates can show only the general characteristics of a region. In reality, local climates vary significantly according to such modest topographical features as the slope of a hillside or the nearness of a wood. Any dip in terrain may, for example, become a "frost hollow," where heavy, freezing air is prone to accumulate. Woodlands, on the other hand, screen off winds, moderating temperatures and raising humidity.

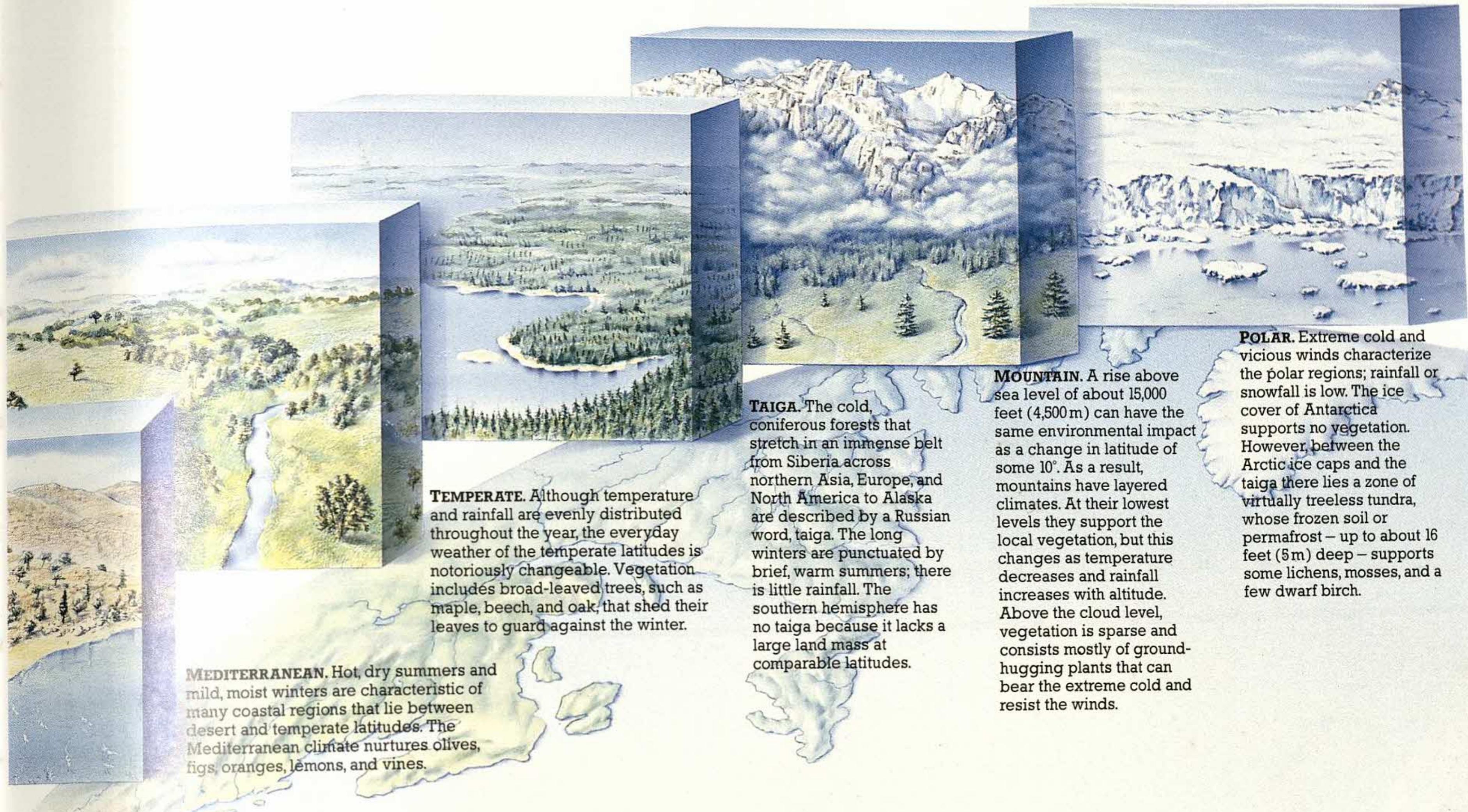


SUBTROPICAL SCOTLAND. The subtropical gardens at Inverewe are free from the frosts of similar latitudes.



SHAPING THE WORLD WE LIVE IN

Vegetation provides so reliable a guide to a region's climate that it is often used, in conjunction with average temperature and rainfall, to define climate. This slice of the earth's surface from the Arctic to South America cuts through nine different types of climate – from the polar regions, where the sun's rays are dispersed, to the tropical regions, where they strike most directly



MEDITERRANEAN. Hot, dry summers and mild, moist winters are characteristic of many coastal regions that lie between desert and temperate latitudes. The Mediterranean climate nurtures olives, figs, oranges, lemons, and vines.

TEMPERATE. Although temperature and rainfall are evenly distributed throughout the year, the everyday weather of the temperate latitudes is notoriously changeable. Vegetation includes broad-leaved trees, such as maple, beech, and oak, that shed their leaves to guard against the winter.

TAIGA. The cold, coniferous forests that stretch in an immense belt from Siberia across northern Asia, Europe, and North America to Alaska are described by a Russian word, taiga. The long winters are punctuated by brief, warm summers; there is little rainfall. The southern hemisphere has no taiga because it lacks a large land mass at comparable latitudes.

MOUNTAIN. A rise above sea level of about 15,000 feet (4,500 m) can have the same environmental impact as a change in latitude of some 10°. As a result, mountains have layered climates. At their lowest levels they support the local vegetation, but this changes as temperature decreases and rainfall increases with altitude. Above the cloud level, vegetation is sparse and consists mostly of ground-hugging plants that can bear the extreme cold and resist the winds.

POLAR. Extreme cold and vicious winds characterize the polar regions; rainfall or snowfall is low. The ice cover of Antarctica supports no vegetation. However, between the Arctic ice caps and the taiga there lies a zone of virtually treeless tundra, whose frozen soil or permafrost – up to about 16 feet (5 m) deep – supports some lichens, mosses, and a few dwarf birch.

DRY GRASSLAND. The prairies of North America and the pampas of Argentina, the veld of South Africa, and the steppes of Asia are all screened from the moisture-laden ocean air either by mountains or by the distances they lie inland. These are the traditional lands of cattle and maize.

HOT DESERT. Daytime temperatures of more than 100°F (38°C) and annual rainfall of less than 10 inches (25 cm) characterize most of the world's hot deserts. Moisture is so scarce that only the most efficient water-storing plants, such as thick-skinned cacti, can easily survive.

SUBTROPICAL. Although temperatures are high throughout the year, there are marked seasonal variations in rainfall – especially in the monsoon lands of India and its neighbors. Vegetation ranges from cultivated rice in southern Asia to the tall, straw-colored grasses of the East African savanna.

TROPICAL. The climate in the tropics is one of high temperatures and heavy rainfall throughout the year. These conditions create the canopy of luxuriant evergreen vegetation that is found in the rain forests of the Amazon, the Zaire Basin, and southeast Asia.

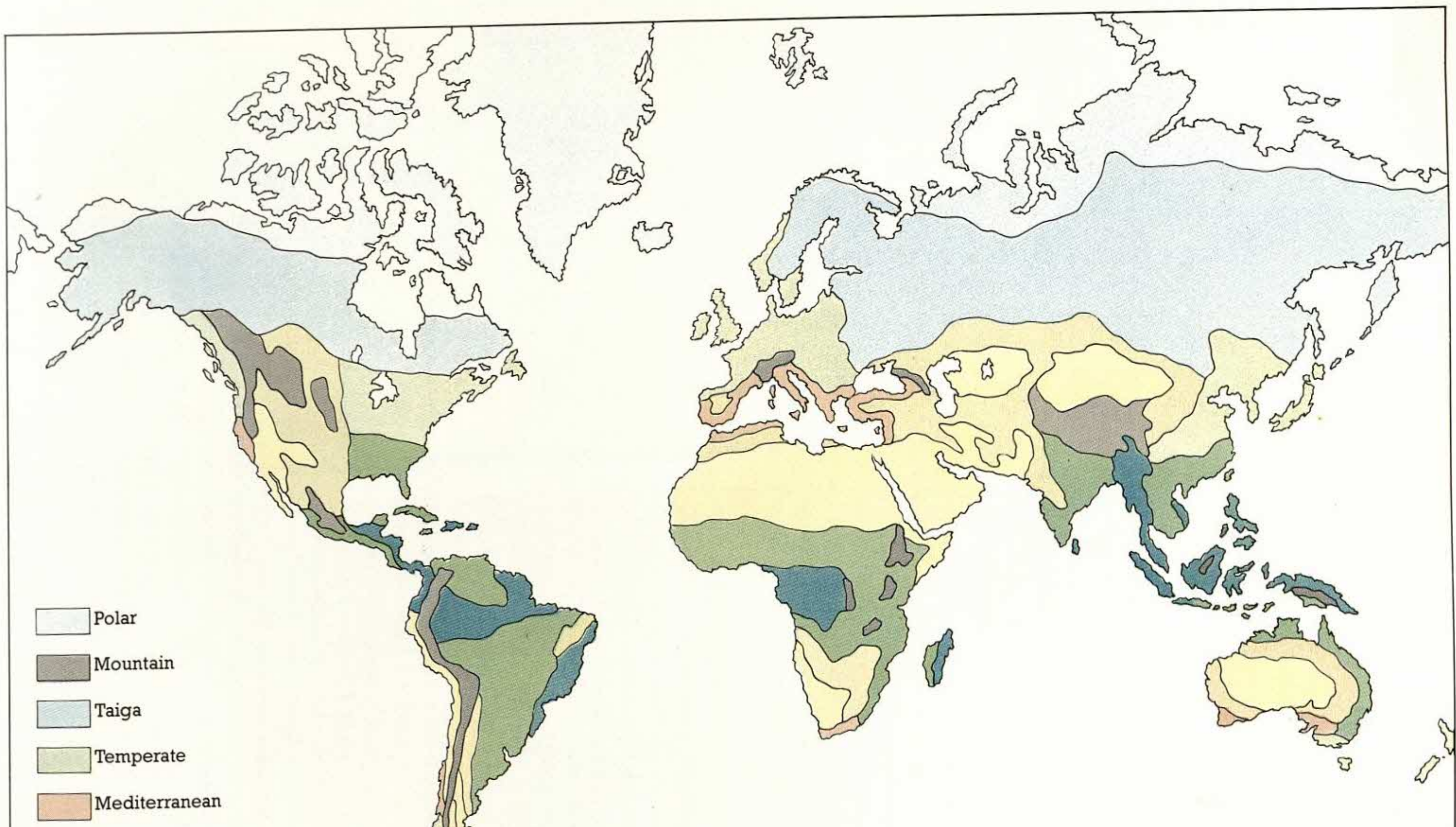
THE GEOGRAPHY OF CLIMATE

At first glance, a world map of climates may appear to be a very intricate jigsaw. However, four basic climatic bands underlie the picture: tropical, desert, temperate, and polar. Tropical climates occur at and near the equator, where the air is always hot and moist. Deserts occur in belts to either side of the equator, where the air, depleted of its moisture, sinks to linger in dry areas of high pressure. In the temperate midlatitudes, warm air meets cold polar winds, and the weather is mild and changeable. Closer to the poles themselves, the air is cold and dry.

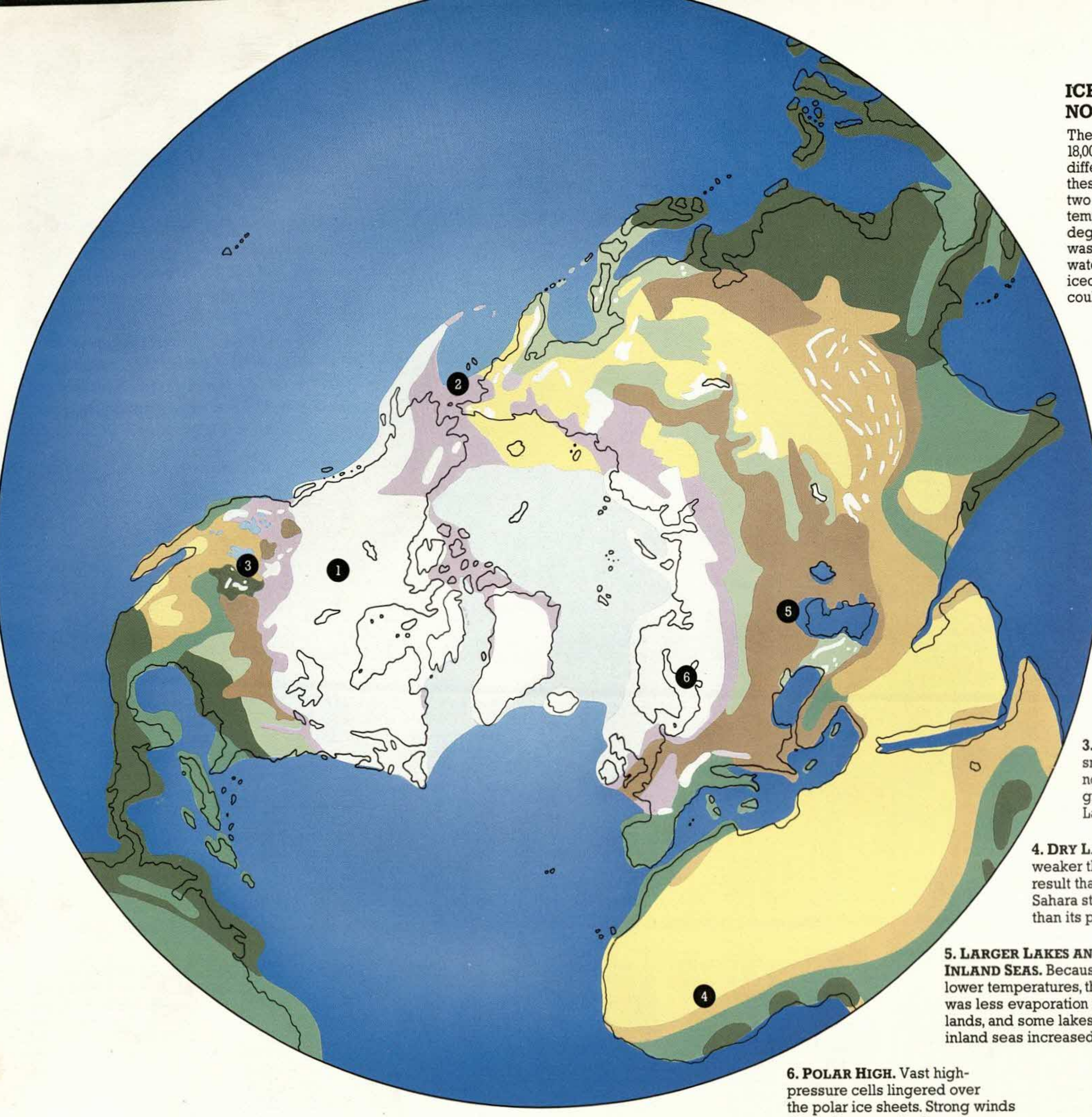
In addition to the four basic bands are four intermediate zones: subtropical, dry grassland, taiga, and "Mediterranean." This last term describes a type of warm coastal climate experienced not only around the Mediterranean Sea but also at similar latitudes both north and south of the equator: in northern California, parts of South Africa, and southern Australia.

Finally, mountains present a special case. Mount Kenya, for example, rises from subtropical savanna. But at 6,890 feet (2,100 m) that vegetation gives way to tropical rain forest and bamboo thickets. Little rainfall occurs above the general cloud level at about 9,850 feet (3,000 m). Here, sparse mountain vegetation has colonized the upper slopes before giving way to the permanent snow cap of the summit.

Climate classifications are based on more than latitude and annual statistics of temperature and rainfall. Warmth and moisture vary greatly with the seasons, height above sea level, proximity to the ocean, and prevailing air currents. For example, in a single year, temperate Boston and monsoon-drenched Madras may receive the same amount of rainfall. But Boston receives its share throughout the year, while Madras gets most of it between June and December.



PATTERNED EARTH. The mosaic of world climates is a record of the many ways in which the earth and its atmosphere can interact.



ICE-AGE WORLD: NORTHERN HEMISPHERE

The geography of the world 18,000 years ago was very different from today's, as these reconstructions of the two hemispheres show. Air temperatures were a few degrees lower. The sea level was lower too, because so much water was trapped in the icecaps. Similar conditions could return one day.

1. ICE COVER. Ice sheets covered much of North America and Europe. New York, Berlin, Stockholm, Montreal, and Copenhagen would be buried beneath the ice if such conditions returned.

2. CONTINENTAL CONNECTIONS. The sea level was lower, baring continental shelves and creating land bridges. Asian nomads migrated to America over the bridge that connected Siberia and Alaska.

3. GREAT LAKE. Fed by melting snow from the Rockies, the now-vanished Lake Bonneville grew almost as big as today's Lake Michigan.

4. DRY LAND. Monsoons were weaker than today, with the result that in West Africa the Sahara stretched farther south than its present extent.

5. LARGER LAKES AND INLAND SEAS. Because of lower temperatures, there was less evaporation in arid lands, and some lakes and inland seas increased in size.

6. POLAR HIGH. Vast high-pressure cells lingered over the polar ice sheets. Strong winds blew silt across the barren areas surrounding the ice and created dust storms.

The Changing Climate

We inhabit a thin, damp tissue of the atmosphere, where hospitable warmth and moisture are maintained in a critical balance. What we think of as the planet's "normal" weather patterns are typical only of the period in which we live.

Clues to the climate of the future lie in the facts of the past. There is every likelihood that the climatic conditions that gripped the earth at the height of the last ice age 18,000 years ago will return one day. A drop in global average temperature of only 4°F (2°C) could initiate a new ice age. The advancing glaciers would imprison so much of the world's water that the oceans would shrink, stripping the seas from the continental shelves. New York City would lie under an ice sheet thick enough to bury the Empire State Building twice over. Montreal, Detroit, and Chicago would be entombed in snow, and the Midwestern prairies would survive only as wind-whipped steppe. Japan would become a peninsula of Asia, and you would be able to walk from England to France. On the other hand, some scientists believe that a rise of only a few degrees in global temperature would start a meltdown of the polar ice sheets and flood low-lying cities worldwide.

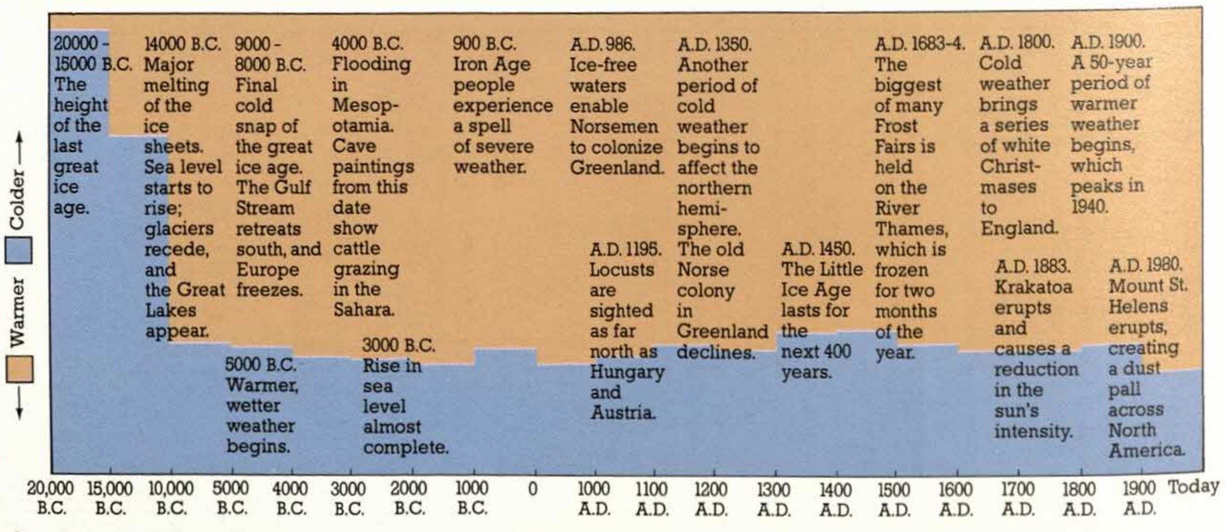
Many forces interact to create changes in the earth's climate. These include tilts in the planet's axis and changes in its orbital path, sunspots that swell the stream of radiation emitted by the sun, and spasms of volcanic activity that hurl veils of dust into the atmosphere.

A CHRONOLOGY OF CLIMATE

Since the height of the last ice age, some 18,000 years ago, the earth has experienced a series of radical changes in its climate.

Many of the clues to these climates past come from the human record and range from cave paintings to harvest statistics. Others come from the annual growth of tree rings. In a mild, wet year the ring will grow thicker than in a harsh, dry one. In addition, the age of fossils trapped in the seabed and in glacial sediment, or of pollen grains embedded in the mud at the bottom of lakes, can help to define the climate of an era.

One of the most accurate means of reconstructing temperature changes, however, is by examining the oxygen content of water trapped in deep-sea sediments and polar icecaps. The atmosphere contains two types of oxygen which react in different ways to warmth. Oxygen 16 is light, and water molecules that incorporate it evaporate more easily from the surface of the oceans than molecules containing the heavier oxygen 18. During an ice age, the snow that falls at the poles tends to contain more oxygen 16 because its heavier counterpart — oxygen 18 — tends to sink to the ocean floor. Examination of the ratio between the two types, strata by strata, therefore reveals temperature trends era by era.



CLIMATE IN HISTORY. This model of global temperature change over the past 22 millennia is based on variations in the oxygen content of water in the ice cores of Greenland.

SECRET RHYTHMS OF HEAT AND ICE

The planet has throbbed hot and cold, according to a pattern. We live at the end of an interglacial — a warm spell, lasting about 10,000 years. It is sandwiched between recurring ice ages, each lasting about 100,000 years. If the pattern continues, the next big freeze might begin within a few hundred years.

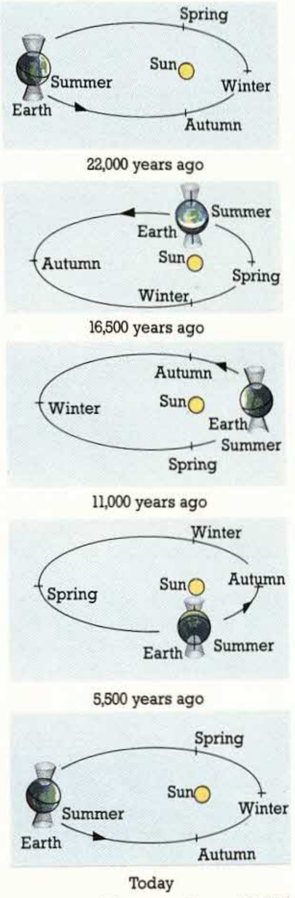
Rhythms of sunshine — in the form of three long-term oscillations — affect the way in which the sun's rays strike the earth. Cycles in the earth's spin, tilt, and orbit — of 22,000 years, 41,000 years, and 100,000 years respectively — are known after Milutin Milankovich, the Yugoslavian scientist who proposed their climatic effect in the 1920's.

Together, these cycles influence the way in which heat is distributed around the globe at different times of the year, disturbing the nature of our seasons. When a summer is cool and new ice fails to melt, the icecap grows. Since snow and ice are brilliant mirrors which reflect much of the sun's radiation back into space, the earth grows colder still. The next summer is likely to be even colder, as the earth plunges into a new ice age.

The first of the Milankovich cycles is governed by the irregularities in the shape of the earth. It is not a perfect sphere because it bulges at the equator. The gravitational pull of sun and moon tugs at this bulge and causes the earth to wobble as it spins about its axis. Over a period of 22,000 years, the earth's axis gyrates in space so that the seasons occur at different points of the earth's elliptical orbit. When the northern hemisphere is tilted toward the sun, causing summer, the earth is at the farthest point of its orbit. Some 11,000 years ago, however, summer in the northern hemisphere occurred when the earth was closest to the sun.

The second cycle operates over a 41,000-year period. The degree of tilt in the earth's axis varies between 21.8° and 24.4°. Today's tilt of 23.4° is gradually decreasing, with the result that the difference between the seasons will become less marked. Summers will become cooler.

Finally, over a 100,000-year period, the earth's orbit changes from an ellipse, along which the sun is farther from the earth during certain months than in others, to a near-perfect circle, when the earth is the same distance from the sun throughout the year. If the earth's orbit is very elliptical, and summer in the northern hemisphere occurs at the farthest point, the winter snow will not melt.



GLOBAL WOBBLE. Over 22,000 years, each of the earth's poles traces a cone in space. As a result, seasons occur at different points in the earth's ellipse.

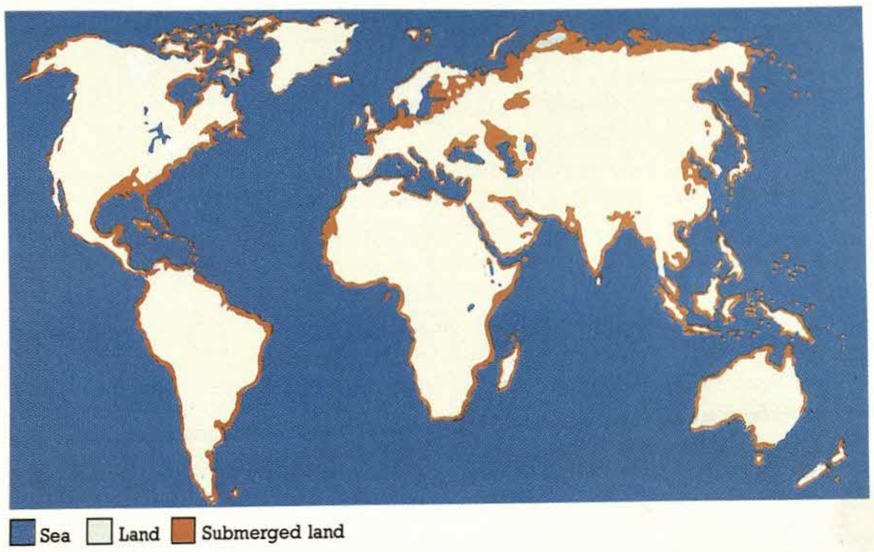
FROM SNOW BLITZ TO SUPERHEAT

Man is caught between two opposing trends. There is a long-term drift toward glaciation, but the planet is also heating up, as carbon dioxide accumulates in the air.

In a process known as the greenhouse effect, carbon dioxide keeps the earth warm by preventing infrared radiation from escaping into space. Plants and animals all absorb the gas during their lifetimes, and when they die a quantity is stored with them. When we burn logs or use fossil fuels, such as coal and oil, we unlock the deposit box and return carbon dioxide to the atmosphere. Levels of carbon dioxide are expected to rise by 75 percent before the middle of the next century.

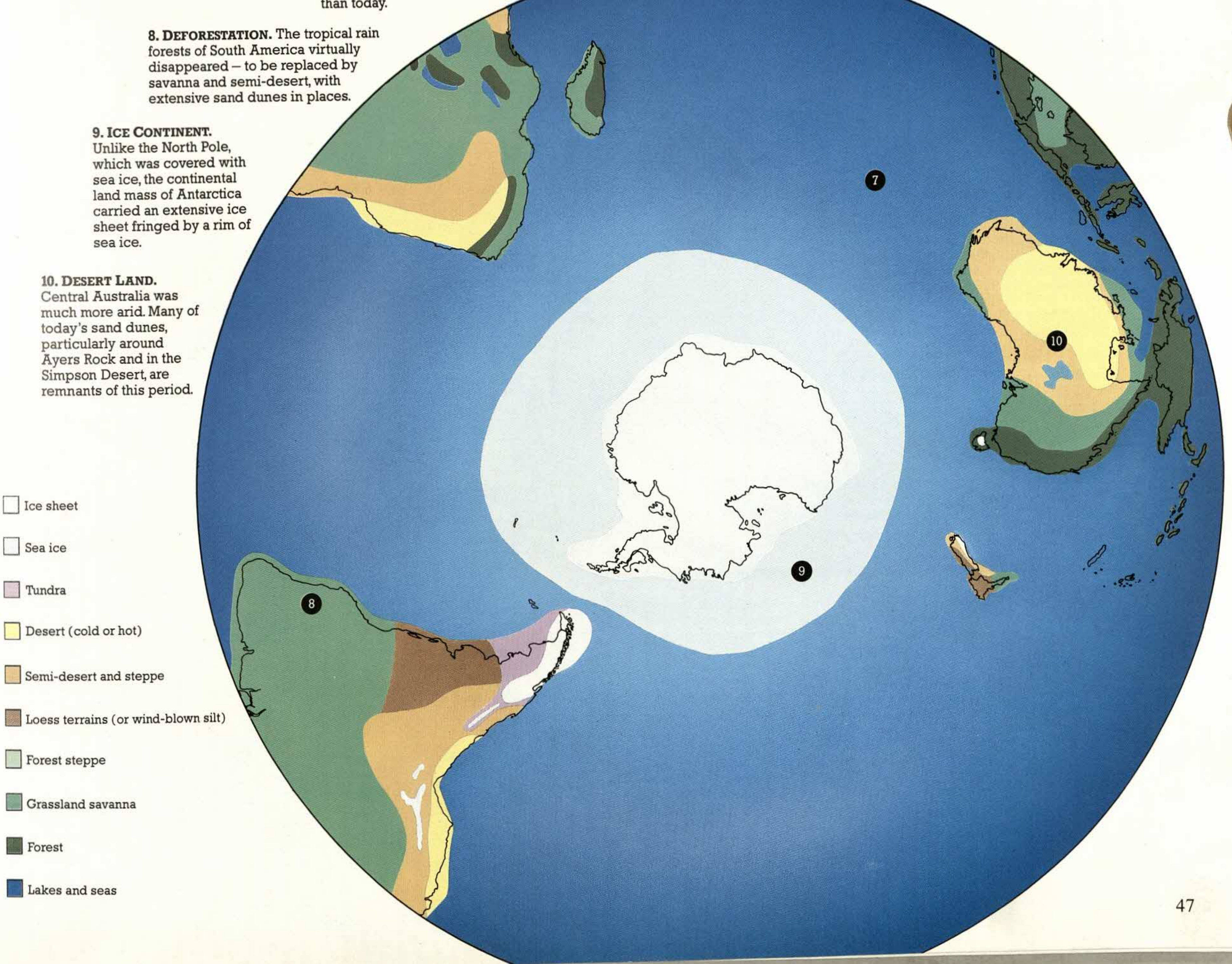
Computer models suggest that this would cause an average rise of up to 8°F (4.5°C) in world temperature, making climates warmer than at any time in the past 100,000 years.

NOT WAVING BUT DROWNING. The Statue of Liberty rises above the meltwater ocean.



GLOBAL MELTDOWN. A rise in temperature, sufficient to melt all of the world's ice sheets, could raise the sea level by 230 feet (70 m), drowning the world's coastlines.

ICE-AGE WORLD: SOUTHERN HEMISPHERE



7. COLD SEAS. Ocean temperatures were, on global average, some 4°F (2°C) lower than today.

8. DEFORESTATION. The tropical rain forests of South America virtually disappeared – to be replaced by savanna and semi-desert, with extensive sand dunes in places.

9. ICE CONTINENT. Unlike the North Pole, which was covered with sea ice, the continental land mass of Antarctica carried an extensive ice sheet fringed by a rim of sea ice.

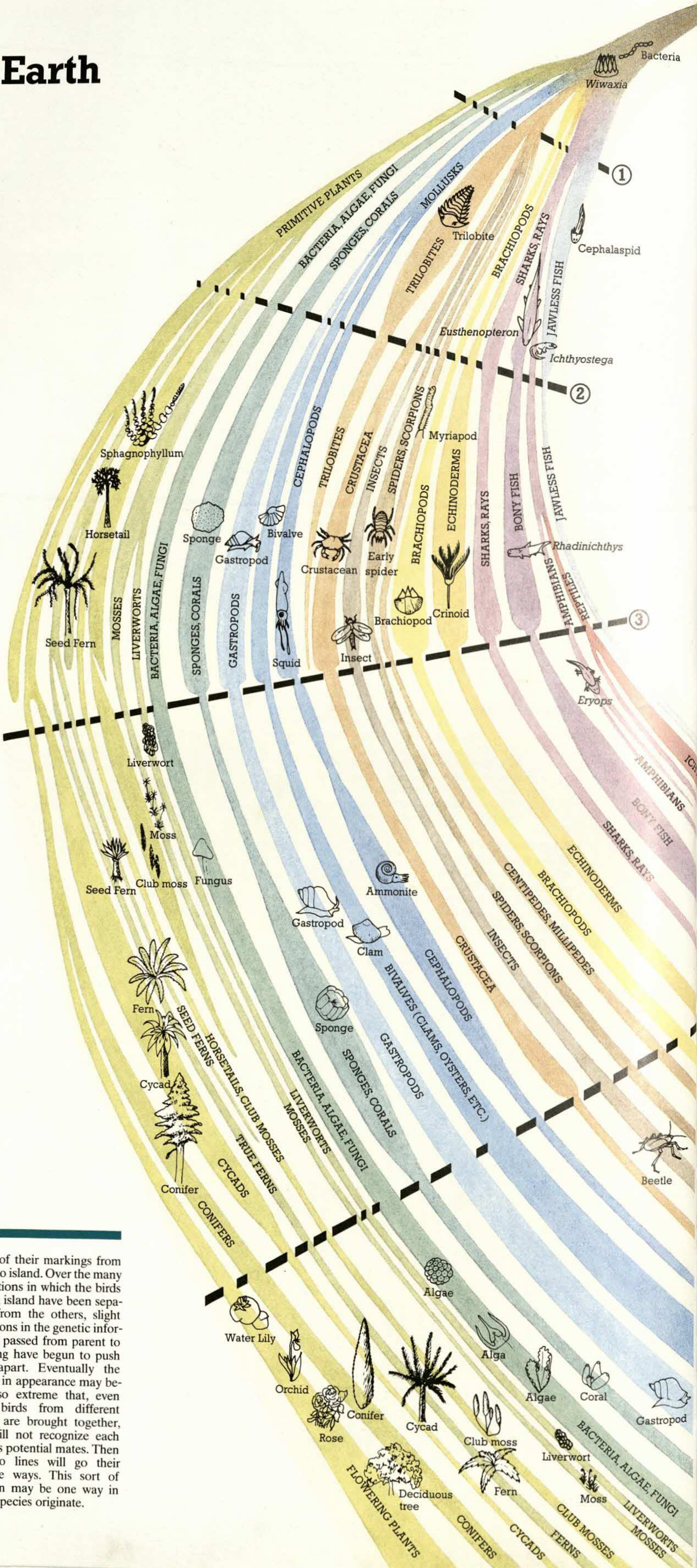
10. DESERT LAND. Central Australia was much more arid. Many of today's sand dunes, particularly around Ayers Rock and in the Simpson Desert, are remnants of this period.

The Story of Life on Earth

When life began, 3.5 billion years ago, the first oceans were still only a few degrees below boiling point. There, in waters bombarded by ultraviolet light from space and played on by lightning from massive thunderstorms, the first amino and nucleic acids, the building blocks for life, were formed. It has happened many times and in many places in the universe — astronomers have detected amino acids floating between the stars — but on earth it gave rise to a history of life which may be unique in its extraordinary variety and abundance.

There are between 3 million and 10 million different kinds of plants and animals alive today, and possibly twice as many were once alive but are now extinct. Every one has been built from those first basic materials, and yet every one is unique. That is the double miracle of evolution: the flow of genetic information across the ages and the editing of that information into almost countless separate categories. The editor is the environment. It selects those organisms for survival that are best suited to life in each particular environmental niche, and ruthlessly destroys those that cannot make use of the resources around them.

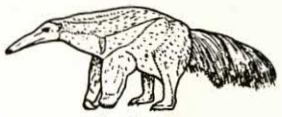
An astonishing variety has been created in the genetic pool. It has allowed life to flourish in almost every corner of the world, so that there are organisms alive today that can live and proliferate in blocks of ice, while others exist and breed in bubbling pools of natural petroleum.



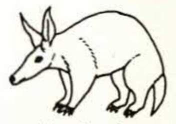
TONGUES AND CLAWS

Anteaters from very different evolutionary lines now occupy parts of every continent except Europe. Despite their different ancestries, each, under pressure from the environment, has developed the equipment that is necessary for an ant-eating life: protection from predators, claws to dig into the anthills, and a long tongue with which to extract the prey.

The Australian spiny anteater is a primitive, egg-laying marsupial. On its back are sharp protective spines, and on its front legs equally sharp claws for excavating ant nests. In its long tubelike jaws is the tongue which it flicks into the ant nests. The Asian and North African pangolin's long tongue can penetrate 16 inches (40 cm) beyond its nose. When threatened, the animal rolls up into a tight ball inside its scaly armor. The aardvark in Africa south of the Sahara, by contrast, uses its heavily muscled front legs for digging and for parrying large predators such as lions. The aardvark's tongue, sticky like those of the other anteaters, can dive a foot (30 cm) into an ant nest. The ant bear, wandering the pampas of South America, is 6 feet 6 inches (2 m) long and is equipped with such long claws for opening termite hills that it must walk on the side of its feet. Its snout — in effect the tongue-case — is actually longer than its legs.


Ant bear
(South America)

Pangolin
(Central Africa; Asia)


Aardvark
(Southern Africa)

Spiny anteater
(Australia)

THE ORIGIN OF SPECIES

It is impossible for a cow to give birth to anything but a calf or for a salmon to breed with anything but another salmon. Nevertheless, both animals have, without doubt, emerged from the same distant ancestor. Scientists are still unsure exactly how the process of speciation occurs, but there are many clues in the world about us. The beautiful songbird called the golden whistler is to be found on the tropical archipelago of the Solomon Islands in the Pacific Ocean. Although the birds on each island are still recognizably part of the same species, there are distinct differences in the colors of their markings from island to island. Over the many generations in which the birds of each island have been separated from the others, slight distortions in the genetic information passed from parent to offspring have begun to push them apart. Eventually the change in appearance may become so extreme that, even when birds from different islands are brought together, they will not recognize each other as potential mates. Then the two lines will go their separate ways. This sort of isolation may be one way in which species originate.

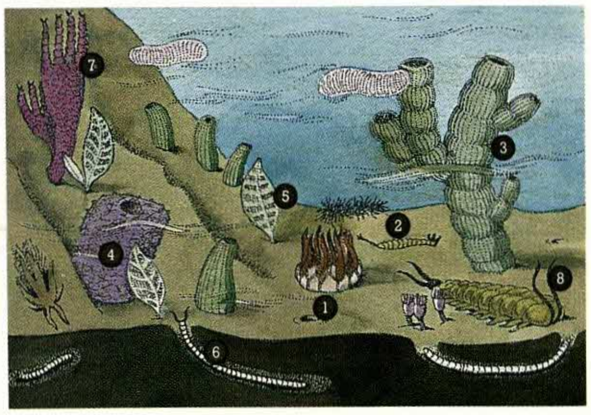
MOVING APART. Golden whistlers from separate islands of the Solomon archipelago in the Pacific have different markings.

1. THE FIRST ABUNDANCE

About 570 million years ago, the continents moved apart, and the climate of the world became more congenial. The polar ice caps melted, and warm shallow seas came to cover wide stretches of the continental margins. Here, on a sea floor rich with nutrients washed down from the land, was the signal for a sudden new abundance. At that immensely distant time, the sea was filled with many strange forms, such as *Wiwaxia* (1) and *Opabinia* (2), which have no known relatives, but fossils of other creatures have been found whose descendants still thrive in the tropical seas of today. Simple sponges, such as *Vauxia* (3) and *Eiffelia* (4), constructed their delicate skeletons. Soft corals called sea pens (5), with long feathery bodies, grew fixed to the mud of the sea floor. Segmented worms (6) burrowed in the mud, and some primitive jellyfish floated above it.

It may have been a change in the chemistry of the sea that allowed the building of hard bodies for the first time. There were many shelled animals, the ancestors of the mollusks, and tall, symmetrical creatures with stalks called crinoids (7).

The kings of the Cambrian seas, however, were the trilobites (8), armored for protection with a mixture of lime and chitin. Some species of trilobite could roll up for protection like woodlice. Others floated upside down, scanning the sea floor for food. The trilobites flourished for more than 200 million years, after which they eventually all but died out and their role was taken over by the crabs and the lobsters.

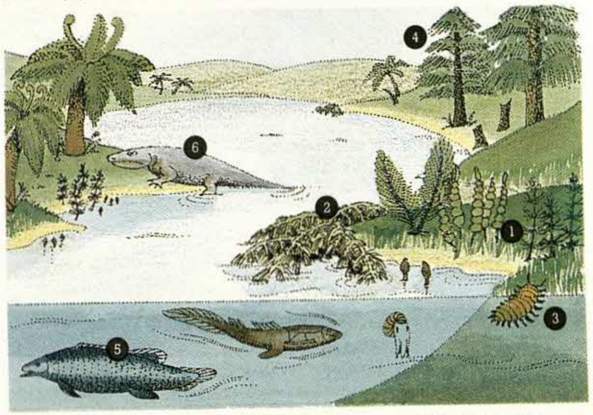


Cambrian Diversity. The seas of 570 million years ago were bright and various with new forms of life.

2. MOVING ON TO LAND

Plants made the first move onto the land. Algae and then club mosses (1) and primitive ferns (2) crept up from the edges of estuaries and rivers in low, damp, tangled mats of green. These were the necessary pioneers. Without the shelter, the food, the shade, and above all, the wetness which they provided, no animal could have survived on land. Among the first creatures to make use of them, about 400 million years ago, were giant millipedes (3), some small spiders and early, flightless insects flourishing among the tree ferns (4). About 350 million years ago, our own ancestors lumbered out of the teeming waters. Animals such as the lungfish (5) could use their bony front fins to haul themselves onto the mud. In time, the first amphibians, such as *Ichthyostega* (6), developed, still returning occasionally to the water to breed.

In the following 100 million years, life on land developed explosively. Great tropical forests flourished. Crocodile-like amphibians ate scaly fish, and the earliest reptiles laid the first shelled eggs.



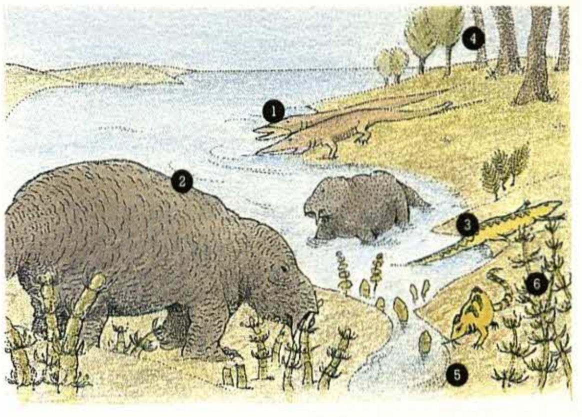
First Steps. With four bony limbs – our own pattern – the amphibians came onto land 350 million years ago.

3. MASS DISAPPEARANCE

About 225 million years ago, the two supercontinents, Laurasia in the north and Gondwanaland in the south, came together to form one global land mass, Pangaea. The pattern of ocean currents changed; the polar ice caps expanded; the seasons became more severe, and the global food supply fluctuated wildly. Most important of all, the area of the continental shelves — the richest of all environments on earth — was halved. This combination of effects brought about the greatest catastrophe ever experienced by life on earth. About half of all the species alive at the time disappeared. Three-quarters of the amphibians and four-fifths of the reptiles became extinct. The creatures that died out included *Rhinesuchus* (1), a crocodilelike fish-eating amphibian; the first plant-eating reptiles, such as *Dicynodon* (2), living on the mud-banks of river deltas; and the small insect-eating reptile, *Millerosaurus* (3). The widespread *Glossopteris* tree (4), forests of which covered large parts of the southern continents, also died away.

The earth took about 20 million years to return to its normal level of biological diversity. Some organisms, such as the mammal-like reptile *Galechirus* (5), survived, perhaps to become the ancestor of the first true mammals. Plants such as horsetails (6) have persevered until today.

Many new families of shelled animals appeared, including snails, periwinkles, and oysters. The great spirals of the ammonites began to jet-propel their way around the oceans. On the land, the first snakes and early dinosaurs appeared in the forests. At night, our new tiny shrew-like ancestors, the first true mammals, crept about unseen.



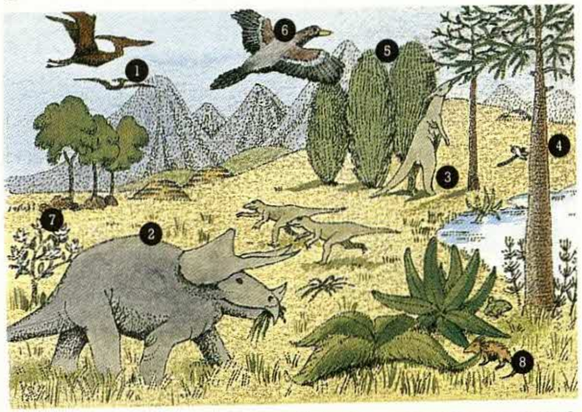
Eve of Disaster. The animals of 225 million years ago browse at the water's edge before the catastrophe.

4. END OF THE DINOSAURS

About 65 million years ago, something strange happened to the earth. Many existing animal families disappeared. All the marine reptiles, all the flying reptiles (1), and any land animal with a body weight of more than about 22 lb (10 kg) died out. The dinosaurs were the principal victims. They had diversified into hundreds of different ecological niches. Some were meat-eaters; others, such as the heavily armored *Triceratops* (2), grazed on the early grasses; and the hadrosaur (3) fed off trees, such as the monkey puzzle (4) or the conifers (5).

The impact from a large meteorite may have disrupted the entire life-system of the planet. Another theory suggests, however, that the sudden disappearance of the dinosaurs is illusory. It may have happened over about 2 million years, and could have been the result of a cooling of the earth.

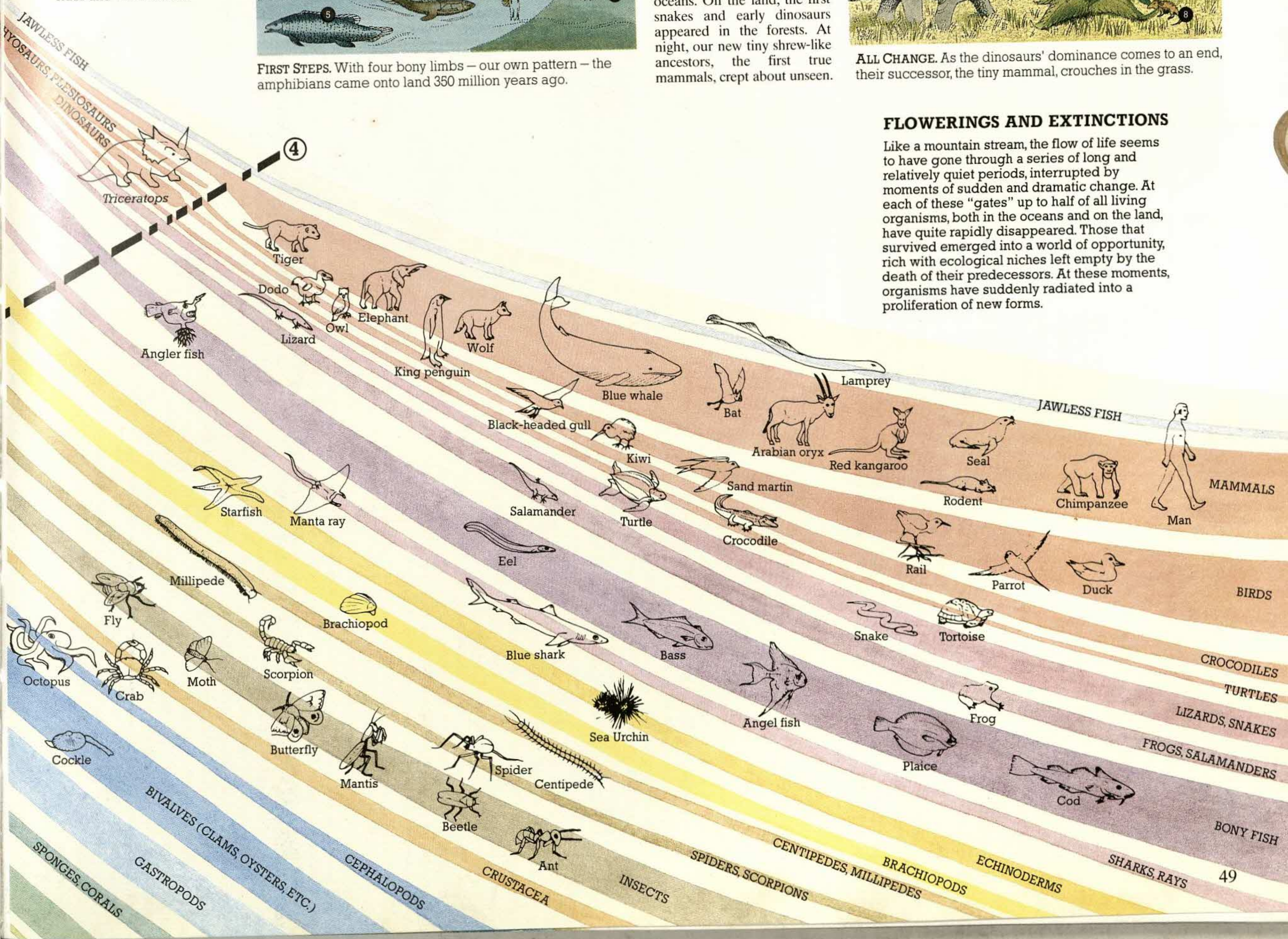
Birds (6) took over the air. Flowering and seed-bearing plants, such as early magnolia bushes (7), now conquered the world, and mammals, such as the insect-eating *Triconodon* (8), began to flourish.



All Change. As the dinosaurs' dominance comes to an end, their successor, the tiny mammal, crouches in the grass.

FLOWERINGS AND EXTINCTIONS

Like a mountain stream, the flow of life seems to have gone through a series of long and relatively quiet periods, interrupted by moments of sudden and dramatic change. At each of these "gates" up to half of all living organisms, both in the oceans and on the land, have quite rapidly disappeared. Those that survived emerged into a world of opportunity, rich with ecological niches left empty by the death of their predecessors. At these moments, organisms have suddenly radiated into a proliferation of new forms.



The Emergence of Man

The story of mankind begins in the tropical forests of at least 65 million years ago. By then the first primates, the order of mammals to which man belongs, had appeared. These tiny creatures of the night gradually developed hands for gripping branches, preying upon insects and testing fruit for ripeness. Since complex hand-to-brain nerve "wiring" was required for these tasks, the capacity to explore with the hand may have contributed to an inquiring and expanding brain.

Many of the characteristics that we share with other primates then began to develop: sensitive finger pads; binocular vision that enables us to see in three dimensions; a large brain; and an "opposable" thumb that is capable of touching the fingers on the same hand, providing both a powerful and a precise, manipulative grip.

Man's closest relatives are the apes, the next most intelligent primates. The gorilla, the chimpanzee, and the manlike hominids may have shared a common ancestor until as recently as 5 million years ago.

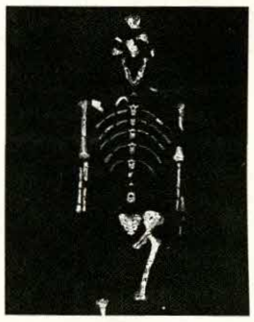
Since then the various hominid types have not evolved in easy succession. At times different types have existed side by side, like separate branches bursting simultaneously from one tree. Consequently, not all of the "fossil men" discovered by scientists are our direct ancestors. There are gaps in the fossil record too, and many things that fossilized bones simply cannot tell us. Our bodies may still, as Charles Darwin once said, bear the indelible stamp of our lowly origin, but the exact route by which we have arrived at our present state is still something of a mystery.

1. THE FIRST STEPS

The time when the hominids rose onto their hindlegs and took their first faltering steps was as exciting, in evolutionary terms, as the thrill every parent feels when a child learns to walk.

During a great drop in global temperature between 7 and 5 million years ago, Africa's tropical forests succumbed to the encroaching grassland. Our vegetarian ancestors, it is thought, came down from the trees and gradually adapted to the open country. At first, perhaps, they sheltered in clumps of trees overnight and foraged on foot in the grasslands during the day. It has even been suggested that since the first hominids were small, they had to rear on their hindlegs to see over the grasses.

The earliest known hominids were the *australopithecines* (southern apes). They lived between at least 4 million and 1.5 million years ago, and their fossils have been found along the East African Rift Valley and in several South African caves.



WALKING TALL. The skeleton of a female from Hadar in Ethiopia, more than 3 million years old, has been named Lucy. The hip and thigh bone suggest that she walked upright, and probably stood a little over 3 feet (1 m) tall.

DISTANT RELATIVES. Remains of a creature known as *Australopithecus africanus* have been found in South Africa. This hominid, which is sometimes known as the "gracile" or slender australopithecine (left), lived 3-2 million years ago and may have been our ancestor. Its later, more robust relative, *Australopithecus boisei*, or "Nutcracker Man" (right), was more thick-set and was not a direct human ancestor.

OLDEST FOOTPRINTS. This trail of footprints, belonging perhaps to two adults and a child, was found preserved in a bed of volcanic ash at Laetoli in Tanzania. It proves that hominids were walking upright some 3.75 million years ago.

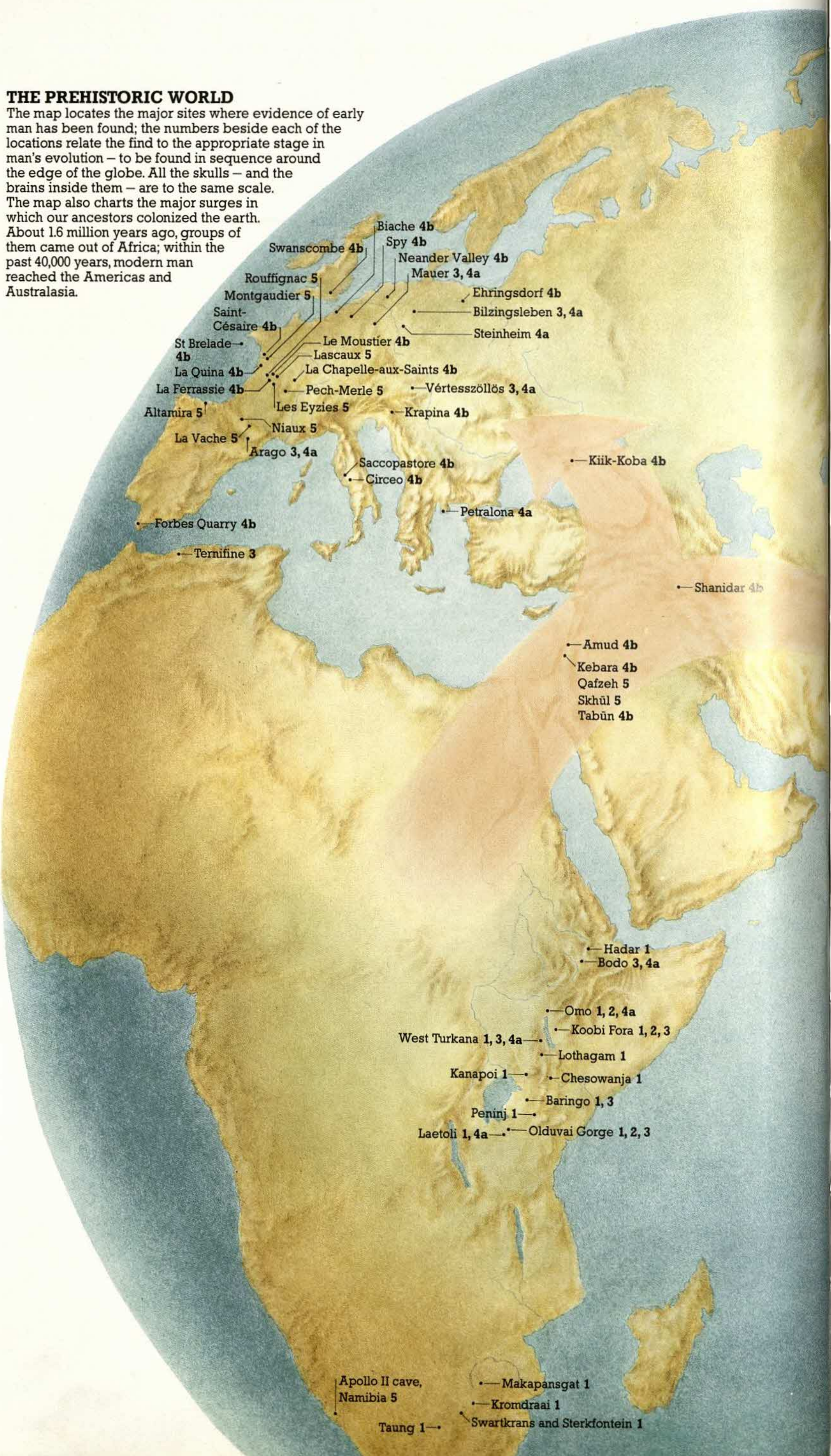
2. THE HANDYMAN

About 2 million years ago, the brains of one hominid line started to expand, and their bodies developed sufficiently manlike attributes for scientists to have dignified them with the name of *Homo* ("man"). Specifically, this creature is known as *Homo habilis* — "the Handyman."

These habilines had powerful hands that were also capable of precision working. They made efficient implements and even engineered tools that were designed for making other tools — hammerstones, for instance.

The habilines probably hunted live game only rarely. On most occasions, they may have used their tools to cut and scrape meat from dead animals that were brought back to communal campsites.

EARLY MAN. A skull recovered from Koobi Fora shows that the habilines had a larger and more rounded cranium than the australopithecines, with less of an apelike muzzle.



THE PREHISTORIC WORLD
The map locates the major sites where evidence of early man has been found; the numbers beside each of the locations relate the find to the appropriate stage in man's evolution – to be found in sequence around the edge of the globe. All the skulls – and the brains inside them – are to the same scale. The map also charts the major surges in which our ancestors colonized the earth. About 1.6 million years ago, groups of them came out of Africa; within the past 40,000 years, modern man reached the Americas and Australasia.

3. OUT OF AFRICA

The fossil record suggests that *Homo habilis* and the earlier hominids were confined to Africa until about 1.6 million years ago. From then on, a new species of hominid known as *Homo erectus,* or upright man, existed not only in Africa but also across Asia and possibly Europe. *Homo erectus* had a larger brain than the habilines and, as well as greater skill at toolmaking, at least one major technological breakthrough to his name: the making of fire.

Fire provided a natural focus for social life. *Homo erectus* may have been a regular hunter who brought back slaughtered game to the communal hearth for cooking and distribution. Carnivores need much more territory per head than vegetarians, and therefore it is the hunting habit that may explain the sudden migratory surge out of Africa. Upright man pursued game into terrains too harsh for a tropical vegetarian.

PEKING MAN. Remains of *Homo erectus,* dating from between 600,000 and 200,000 years ago, and evidence of fire were found at Zhoukoudian, near Beijing (Peking) in China.

TOOL TECHNOLOGY. The chipping of tear-drop axes, from 1.5 million years ago, is witness to the finely honed skills of *Homo erectus.*

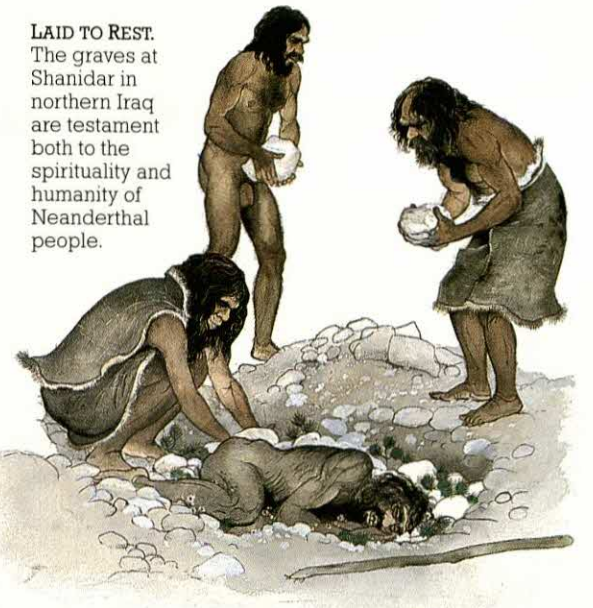
4. NEANDERTHAL MAN

Homo erectus evolved into a more advanced kind of human called archaic *Homo sapiens* (4a). In Africa and perhaps in Asia, these people eventually evolved into modern man, but in Europe, the Near East, and Central Asia they became *Homo sapiens neanderthalensis* (4b), or Neanderthal man.

Because of his low brow and lantern jaw, Neanderthal man fits the brutish cartoon image of a caveman. But such a picture is wrong. For these remarkable people were capable of sensitivity and great spiritual feeling.

They lived from more than 100,000 to 35,000 years ago, making tools, using fire, fashioning clothes, and probably holding ceremonies. Archeologists have, for example, found Neanderthal graves in the Zagros mountains of Iraq. In one, a 40-year-old man with a withered arm may have been laid to rest on a bed of woody horsetail. In another, the body was possibly garlanded with cornflowers, hollyhocks, and hyacinths.

The Neanderthals — an offshoot of the main hominid line — died out about 35,000 years ago during the last ice age.


LAID TO REST. The graves at Shanidar in northern Iraq are testament both to the spirituality and humanity of Neanderthal people.

HALFWAY MAN. Archaic *Homo sapiens* is a stage between *Homo erectus* and both Neanderthals and modern man.

HEAVY-BROWED. The Neanderthal skull is distinguished by a heavy brow ridge and a large projecting nose.

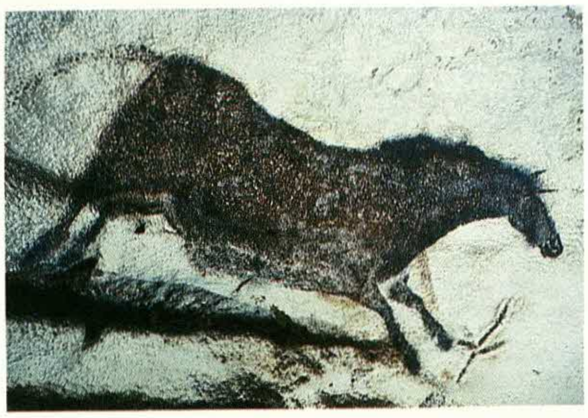
5. THE COMMUNICATOR

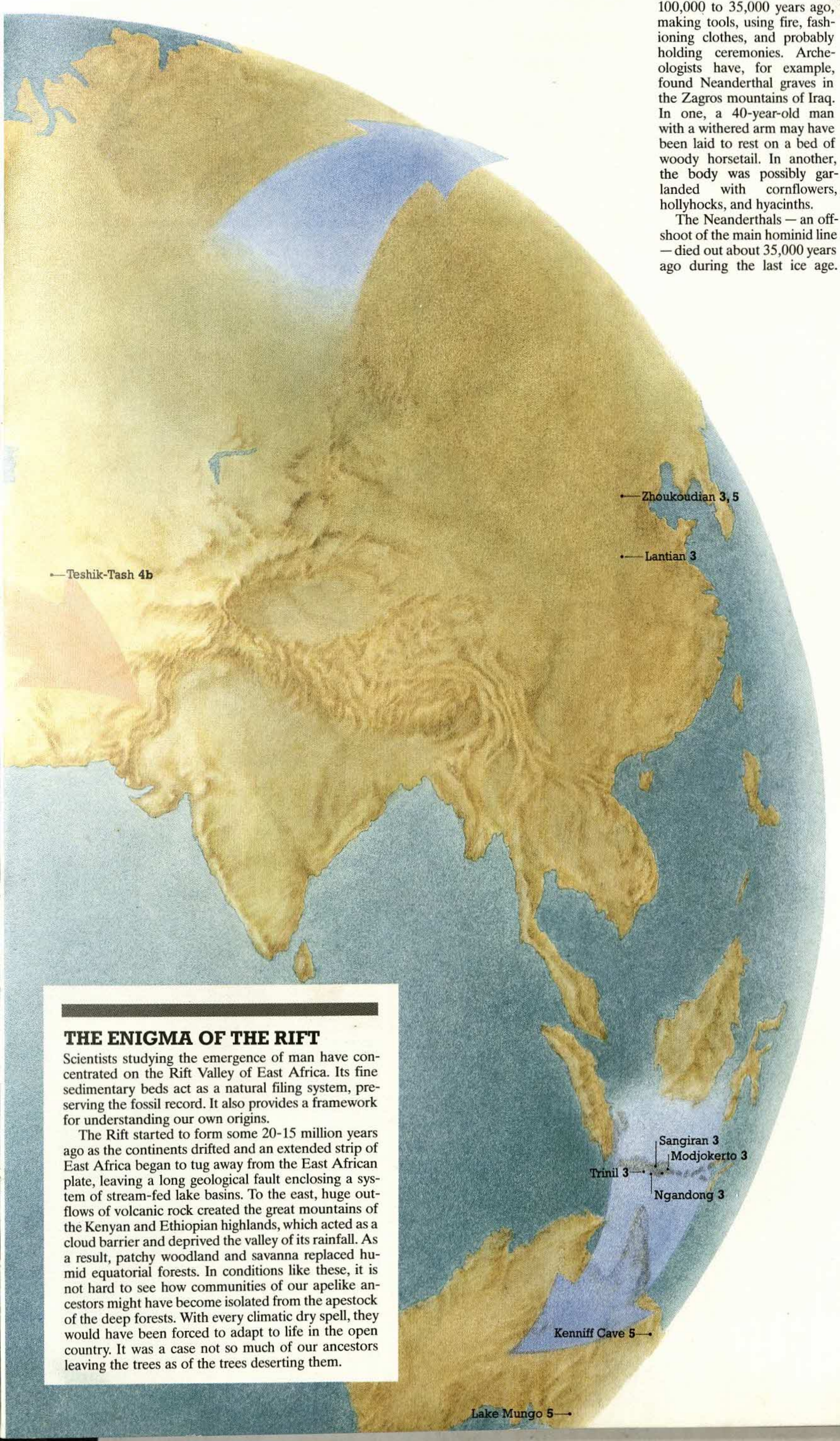
Some 35,000 years ago, human beings physically just like ourselves were living in Europe, Africa, and Asia. And by 30,000 years ago — during the last ice age when a land bridge connected Siberia with Alaska and people could walk most of the way from the Asian mainland to Java — large parts of the Americas and Australasia had probably been colonized by our own subspecies, *Homo sapiens sapiens.* He is called "the wise, wise man" to distinguish him from the Neanderthals and to celebrate his crowning characteristic — intelligence.

What identifies the Ice Age hunting peoples more than anything else is their use of symbols to represent things. They carved female figures out of bone and stone, and they decorated cave walls with magnificent images of animals. The high point of their culture comes with the harshest period of the ice age, around 18,000 years ago. It was soon after then that the beautiful cave paintings of Lascaux in southern France and at Altamira in northern Spain were created. Man had clearly become a very skilled communicator and artist.

MODERN MAN. Modern man's rounded cranium encloses a brain of about 80 cubic inches (1,350 cu cm).

STONE AGE STYLE. This bison from the caves at Altamira in Spain, painted between 15,000 and 12,000 B.C., illustrates the exquisite naturalism of Stone Age art.


ICE AGE FOOD. The horses on the cave walls at Lascaux in France, painted about 15,000 B.C., may represent prey.



THE ENIGMA OF THE RIFT

Scientists studying the emergence of man have concentrated on the Rift Valley of East Africa. Its fine sedimentary beds act as a natural filing system, preserving the fossil record. It also provides a framework for understanding our own origins.

The Rift started to form some 20-15 million years ago as the continents drifted and an extended strip of East Africa began to tug away from the East African plate, leaving a long geological fault enclosing a system of stream-fed lake basins. To the east, huge outflows of volcanic rock created the great mountains of the Kenyan and Ethiopian highlands, which acted as a cloud barrier and deprived the valley of its rainfall. As a result, patchy woodland and savanna replaced humid equatorial forests. In conditions like these, it is not hard to see how communities of our apelike ancestors might have become isolated from the apestock of the deep forests. With every climatic dry spell, they would have been forced to adapt to life in the open country. It was a case not so much of our ancestors leaving the trees as of the trees deserting them.

The Settling of Man: Farming and the City

Although the ways of the farmer and the city dweller may seem poles apart, their history is intimately related. Over the first 2 million years of human history, our ancestors were entirely dependent upon nature's whims for food. It is only within the last 10,000 years that they have settled down to farm the land and control their own food supply.

The earliest settlements were farming villages — ancient Jericho was little more than such. But, as crop surpluses grew and trade and industry thrived, the village became the organized city, crowded with specialist craftsmen — builders, carriers, sculptors, physicians, bureaucrats, and priests.

The great thaw at the end of the last Ice Age, some 10,000 years ago, may have started this process on its way. For it brought milder weather and the spread of the wild grass ancestors of modern cereal crops.

What happened next has been seen, in part, as a revolution in containers. Pots, vats, cattle pens, granaries, water cisterns, and the walled town itself were all storage devices designed to shelter and protect. Farming and city life depended not only on the new skills of organization and technology. They also required the home base and nurturing skills traditionally connected with womanhood. In Egyptian hieroglyphs, for example, the symbols for "house" and "town" also stand for "mother." And our own concept of civilized living implies, as well as the use of cunning gadgetry, the comfort and security of a settled life.

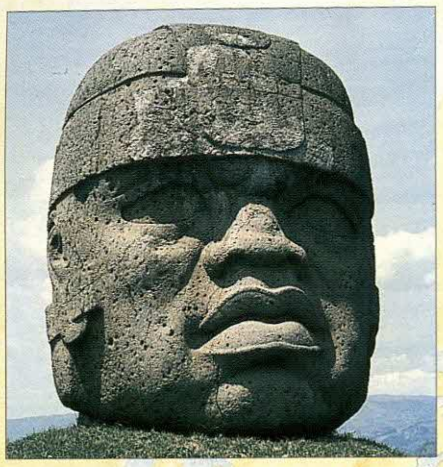
MESOAMERICA: MONUMENTS OF A VANISHED CIVILIZATION

The construction of huge, immovable objects is one of the hallmarks of a settled people. The Olmecs, who created the first major civilization in the Americas, built vast pyramid-shaped temples as well as some of the most colossal statuary seen in the ancient world.

From about 5000 B.C., a form of maize was being cultivated in Mesoamerica — Mexico and the isthmus to the south. By 2000 B.C., farming villages were well established, and the skills of pottery and weaving were being practiced.

The Olmec swamplands lie on the east coast of Mexico. The discovery here of artificially raised platforms and drainage works implies the communal mobilization of manpower. From 1200–600 B.C., the Olmecs built a series of ceremonial centers, the greatest of which was La Venta.

For sheer grandeur, nothing could rival the colossal heads which the Olmecs set up there. They were carved from giant blocks of basalt, sometimes weighing as much as 34 tons, which had to be brought from a quarry many miles away.



OLMEC HEAD. A huge helmeted head, carved from basalt and erected by the Olmecs between 500 and 100 B.C., demonstrates the power and organization of their culture.

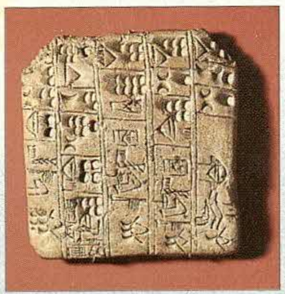
MESOPOTAMIA: WHERE HISTORY BEGINS

The skill of writing divides history from prehistory. And the earliest evidence of writing — and of the wheel and monumental architecture — comes from Mesopotamia, the region between the rivers Tigris and Euphrates, in modern Iraq.

In ancient times, the rivers' floods washed down fertile alluvial soils but rainfall was uncertain and, without manipulating the river waters, no crops could have been grown. Irrigation works were essential, and the maintenance of such a system both required cooperation and put power in the hands of the communities that controlled the canals. The rewards were bumper crops, enough to support a wealth of specialist craftsmen who never needed to work in the fields.

Cities arose in Mesopotamia around 4000 B.C. In places such as Ur, Uruk, Eridu, and Susa, huge temples and palaces were built. Workshops turned out mass-produced pottery for export, in exchange for materials scarce on the silty plain: stone, timber, and metal ore. Masted cargo vessels and wheeled carts developed in response to the needs of trade during the 4th millennium B.C.

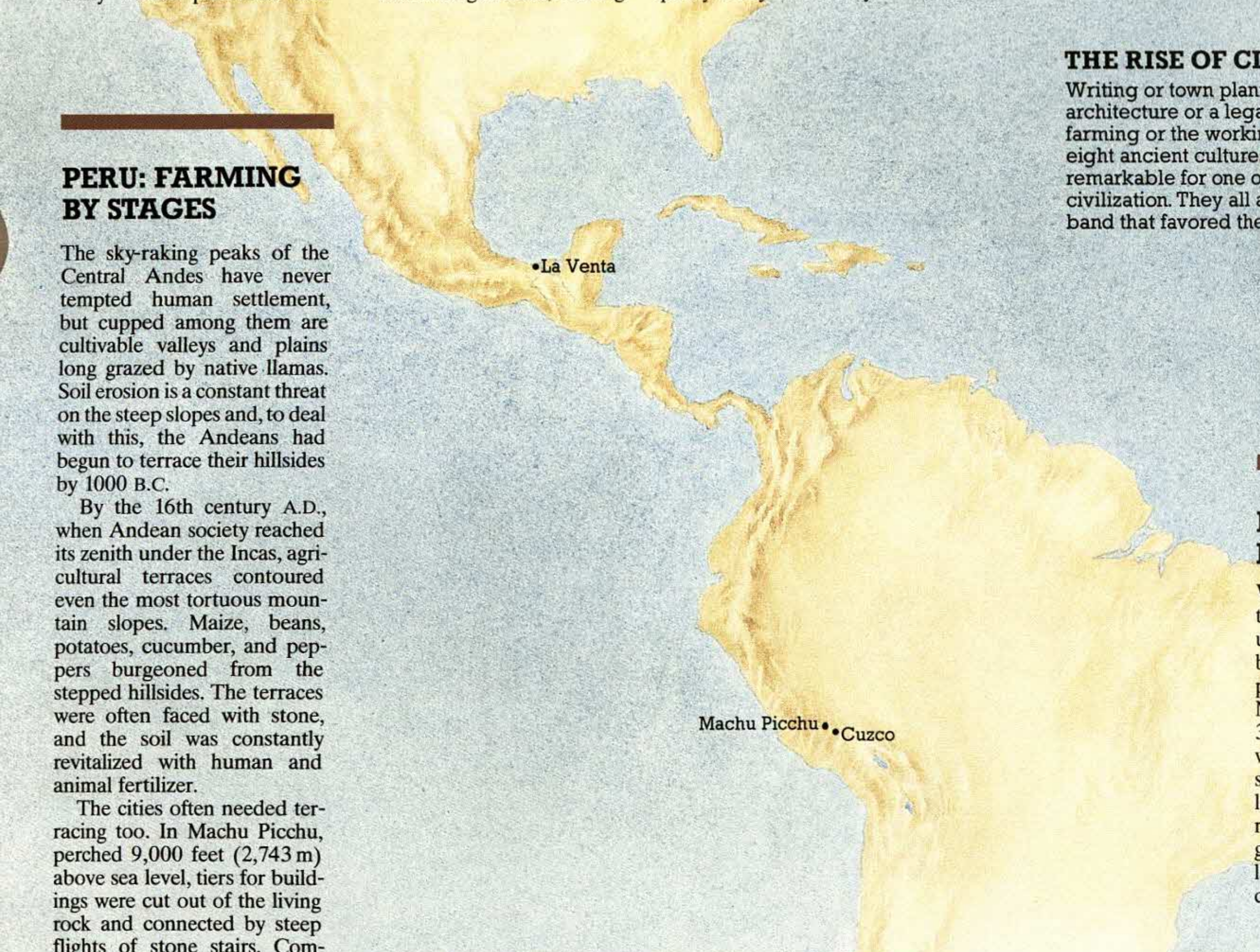
Writing first appeared in southern Mesopotamia in about 3100 B.C. It evolved from stylized picture images and was not at first used to list dynasties or record epic adventures. The first texts, pressed into wet clay tablets, merely totted up heads of cattle or sacks of grain.



CLAY LEDGER. Field areas were noted down on a tablet in southern Mesopotamia, about 2900 B.C.

THE RISE OF CIVILIZATION

Writing or town planning, monumental architecture or a legal code, sophisticated farming or the working of metals – each of the eight ancient cultures presented here is remarkable for one of these key features of civilization. They all arose in a broad climatic band that favored the growth of crops.



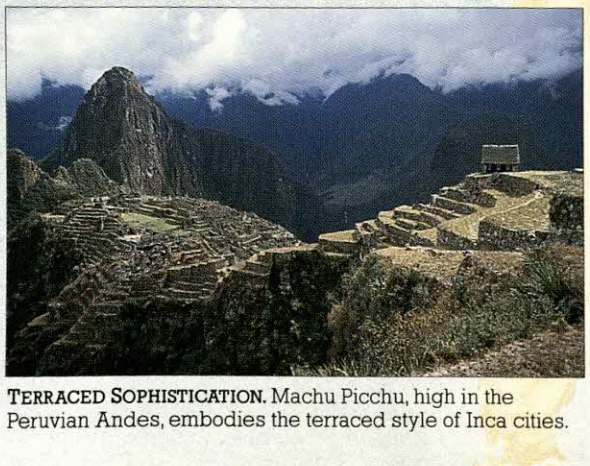
PERU: FARMING BY STAGES

The sky-raking peaks of the Central Andes have never tempted human settlement, but cupped among them are cultivable valleys and plains long grazed by native llamas. Soil erosion is a constant threat on the steep slopes and, to deal with this, the Andeans had begun to terrace their hillsides by 1000 B.C.

By the 16th century A.D., when Andean society reached its zenith under the Incas, agricultural terraces contoured even the most tortuous mountain slopes. Maize, beans, potatoes, cucumber, and peppers burgeoned from the stepped hillsides. The terraces were often faced with stone, and the soil was constantly revitalized with human and animal fertilizer.

The cities often needed terracing too. In Machu Picchu, perched 9,000 feet (2,743 m) above sea level, tiers for buildings were cut out of the living rock and connected by steep flights of stone stairs. Communications in this mountainous country were problematic, but the Incas built a marvelous road system to serve imperial messengers who ran in relay from the capital at Cuzco. The routes often followed high ridges rather than swooping into the switchback valleys.

The state was strictly hierarchical, utterly dependent on the figure of the emperor. When the Spaniards under Francisco Pizarro invaded in 1532 and usurped the emperor, they were able to inherit the whole stepped edifice of Inca civilization.



TERRACED SOPHISTICATION. Machu Picchu, high in the Peruvian Andes, embodies the terraced style of Inca cities.

BABYLON: THE RULE OF LAW

Without the framework of law, the complex structures of urban civilization would soon break down. Among the great powers that rose and fell in the Near East during the 2nd and 3rd millennia B.C., Babylon was outstanding for its legal system. Prominent among the lawmakers was King Hammurabi (1792–1750 B.C.), who gathered together the common laws of Babylon and Sumer to create a single legal code.

Like other monarchs of his day, Hammurabi was absolute ruler of a slave-owning society. Records from the archives of the palace at Mari, which he sacked, show him to be a cynical diplomat, skilled in international power play. Nevertheless, his great law code, collated for use in courts throughout his empire, marks a milestone in the story of civilization.

Here, in 282 articles, were gathered together guidelines for coping with the myriad disputes likely to arise in the teeming cities of his time.

LAWMAKER. The law code of Hammurabi was carved on upright stone tablets, or stele. It covers loans, bequests, wages, medical fees, divorce, adoption, and real estate. It is often humane. For example, if a nobleman divorces his wife because she is infertile, he must pay back her dowry. But the articles can be severe too. A man who permits an irrigation dike to be breached shall be sold as a slave, the proceeds going to those who have suffered by his negligence.

EGYPT: KINGDOM OF THE GODS

Like the many separate city states of Mesopotamia, ancient Egypt grew up around a regimen of river flooding and water management. But the solitary ribbon of the Nile gave a special cohesion to its society. From about 3100 B.C., upper and lower Egypt were joined under a single pharaoh, Menes. Thereafter, Egyptian civilization evolved continuously, under successive dynasties of kings, for 2,500 years.

The key to Egypt's unique sense of national identity lies in the dual role of the sovereign. The pharaoh was both king and god, throned at the apex of a rigidly hierarchical society in which state and religion were one. Supported by an extremely efficient bureaucracy of scribes, Egypt's god-kings could undertake massive projects, from pyramid building to imperial conquest.

But the Egyptians delighted in earthly pleasures also. The ruling classes invented the free-standing suburban villa, distanced from the hubbub of the city center. And they benefited from the best medical science then known. There were practical textbooks on diagnosis and treatment.

There were doctors who specialized in different forms of ailment: eye specialists, for example, and dentists. Splints, casts, and sutures were available for injury, and physicians used a wide range of medicinal plants. Castor oil was prescribed as a laxative, and opium was used to pacify babies. Egyptian doctors even devised sophisticated methods of birth control.

GOD-KING. Blessed by the sun, Tutankhamun's queen spreads perfumed oil on the Pharaoh's collar (1358-1351 B.C.).

CHINA: FOOD FROM THE FLOOD PLAIN

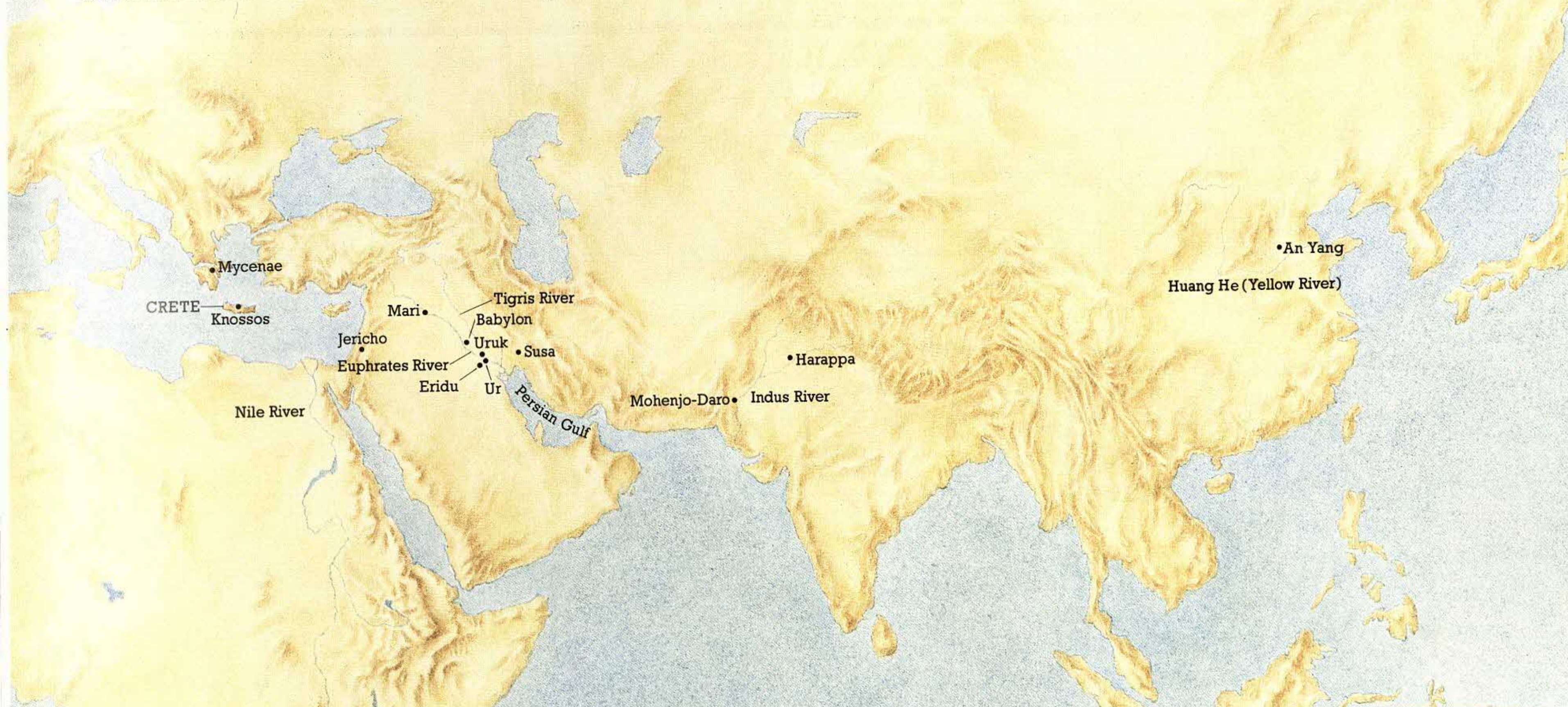
Farming began independently in China, based on quite different crops from those grown in Mesopotamia, Egypt, and India. The cultivation of rice (in the south), of millet (in the north), and of soy beans and yams from about 7000 B.C. spawned an increase in rural population. Not until much later, about 2000 B.C., after some contact across central Asia with the Near East, did real urban settlement begin.

The fertile flood plain of the Huang He, or Yellow River, cradled the seeds of the earliest civilization in China. Surplus food encouraged a booming population, urban growth, and the development of fine bronze casting based on massive deposits of copper and tin in southeast Asia.

Under the Shang dynasty of the 18th–11th centuries B.C., a fully fledged Chinese civilization emerged. Horse-drawn chariots, probably introduced from western Asia, plied the streets of An Yang, the royal capital. It was a rigidly stratified society, in which power radiated from the divine monarch, spread out through the aristocracy, and was eventually imposed on the subject masses. This radical difference between the value of the lives of those at the top and at the bottom of Chinese society is symbolized by the large and glorious royal tombs. Not only the monarch but hundreds of slaughtered retainers are buried there, a massive provision of soldiers and servants for the king's afterlife.

China's unique script was also developed under the Shang. It does not seem to have been a tool of commerce. Most of the early examples are found on oracle bones that were used by priests for prophecies.

BRONZE ARTISTRY. This Shang dynasty ritual vessel – a tiger protecting a man – was made in the 14th-12th centuries B.C. It is covered in the animal motifs of a fertility cult.



MINOAN CRETE: CITADEL OF THE SEA

The Island of Crete, in the eastern Mediterranean, was near enough to the great Bronze Age power sources in Egypt and Mesopotamia to be influenced by them, as a network of trading links reached out from the shore. But, unlike their nearer neighbors, it was far enough not to be swamped by them. Crete, dependent on the sea and protected by it, developed a bright and powerful culture of its own, which reached its height between 2000 and 1450 B.C., before being conquered from the north by Mycenaeans sailing over from mainland Greece.

Mariners had been plying sea routes through the Aegean almost from the end of the Ice Age, and the many islands and long coastlines of the Aegean fostered a tradition of maritime skill and enterprise. Cretan workshops exported exquisite products, including vases, figurines, rings, and seals to Cyprus, Egypt, and the Near East. It was from the proceeds of such trade that the great palaces of Knossos, Mallia, Phaistos, and Zakros were built. Such sophisticated and painted palaces were the centers of small towns.

Minoan art is marked by an extraordinary gaiety. No solemn, bearded patriarch is seen among the bull-leaping youths and bare-breasted women. Minoan images give the impression of a fearless society. The palaces are unique among ancient examples in lacking defensive walls: the sea itself was Crete's rampart.

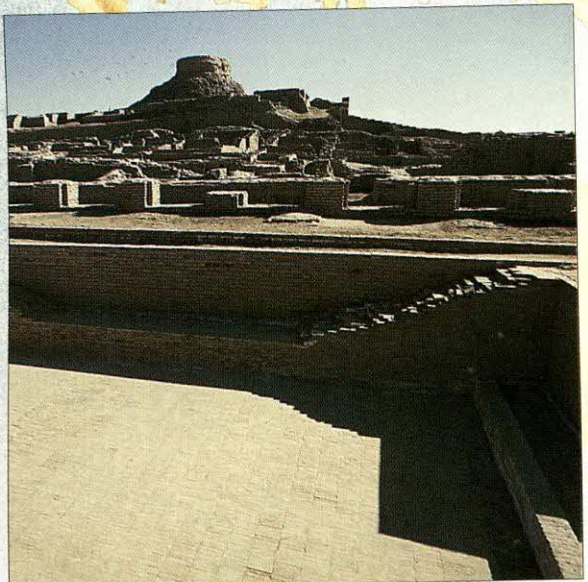
SEA KINGDOM. A fresco from the Cretan palace on Thera (Santorini), until recently concealed by volcanic dust, reveals all the brilliance of Minoan civilization

THE INDUS: ANCIENT TOWN PLANNING

From about 3000 B.C., scores of settlements grew up on the flood plain of the Indus valley, in the area of modern Pakistan. The largest, Mohenjo-Daro and Harappa, each contained about 30,000 inhabitants at their peak. They were, essentially, farming people whose crops included wheat, barley, sesame, peas, and cotton. They manufactured cotton cloth for export, and, from the evidence of artifacts found at their sites, clearly traded a long way by sea, up the Persian Gulf as far as Mesopotamia.

The Indus culture had its own script and its own religion, with ascetic practices and fire rituals akin to those of later Hinduism. Religion alone seems to have played the dominant role in this tightly organized society, with its well-planned settlements. For – quite unlike Egypt or Mesopotamia – there are no traces of the palaces of kings or aristocrats.

A standardized system of weights and measures applied throughout the Indus civilization. And its towns were planned according to a rigorous, rectangular grid system – even the bricks were made to uniform size. Particular care was taken over the water supply and the drainage and washing facilities. Houses in Mohenjo-Daro, which were often built two stories high, included bathrooms served by earthenware pipes. In some cases, sit-down toilets were built, with sloping channels to drains in the street.



GREAT BATH. The brick-walled public bath at Mohenjo-Daro (foreground) has survived four millennia of neglect.

The Wanderings of Man and the Making of History

Throughout history, people have moved across the planet's surface, sometimes in trickles of individual families and sometimes in mass population surges. Famine, overpopulation, the search for a better life, or flight from an enemy may set a people in motion. And the results can be complex as one initial surge puts pressure on neighboring communities, who in turn displace neighbors of their own. In such a way, throughout antiquity, stirrings among steppeland nomads in the heart of Asia brought ripples of catastrophe to the civilizations of Rome to the west and China to the east.

Religious faith may motivate a migration: it spurred the Islamic conquerors and the Pilgrim Fathers alike. Sometimes, too, peoples have been forcibly transported, as happened to the black victims of the Atlantic slave trade, which reached its peak in the 18th century. The great Diaspora, or dispersion, of Jewish people can similarly be traced to one episode of history. It started in the 6th century B.C., when the Jews were deported from ancient Israel into captivity in Babylon. Successive persecutions later drove their communities to disperse over much of the world.

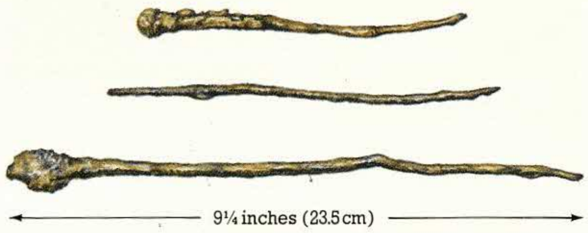
The story of man's wanderings encompasses epics of exploration and adventure, ranging from the voyages of the Stone Age Polynesians to the expeditions of Magellan and Captain Cook. Whether thought of as pilgrims or vagabonds, we remain, after ten millennia of settled living, a species with wanderlust.

THE DORIANS: THE SETTLING OF A TRIBE

The rise of classical civilization in Europe can be traced back to the wanderings of a few barbarian tribes late in the second millennium B.C. Initially, the influx of Dorians from the north plunged Greece into a dark age in which society fell apart and the skill of literacy was lost. However, the newcomers possessed one technology which their precursors did not have: the use of iron. This gave them the ability to make more effective weapons and superior farming implements, such as sickle blades and stronger plowshares — capable of breaking up heavy soils that had never been exploited before. By 800 B.C., improved agriculture had started a population explosion — and the rise of a vibrant new Greek culture.

Farming stimulated the growth of self-contained city states, each consisting of a town with its surrounding countryside. The busy Greek *polis* — from which we get the term "politics" — was the basic unit of civilization.

The boom in population and the need to trade prompted overseas emigration. Greek colonies were founded as far afield as North Africa, Sicily, southern Italy, and southern France and, with the conquests of Alexander the Great (356-323 B.C.), territories as far east as India were opened to Greek influence. Where settlers went, so too did the splendors of Greek art, architecture, and philosophy.



CURRENCY INSTRUMENTS. Iron-working spread to Greece with the Dorians. By the 8th century B.C., iron spits were being used for currency in the city of Sparta.

THE HUNS: HORSE-RIDING NOMADS OF THE STEPPE

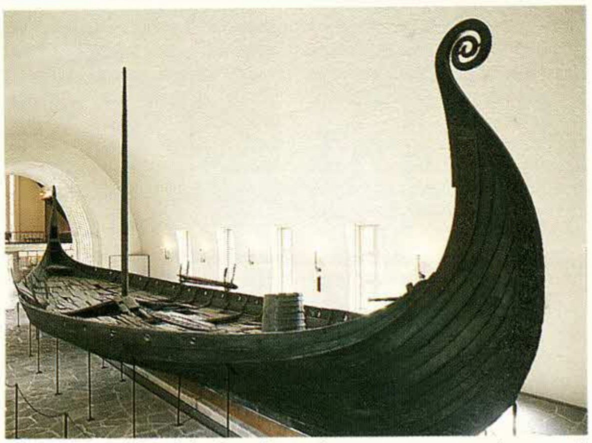
"A hideous dwarf" is how one Roman chronicler described Attila, the squat and sparsely bearded leader of the Huns; yet this 5th-century warrior straddled the two worlds of barbarism and high civilization like a colossus and can even lay claim to being one of the founders of modern Europe.

The Huns were a confederation of tribal groups which formed in outer Mongolia in the 4th century A.D. After the death of Attila in 453, their empire crumbled.

But their invasion of Europe had already triggered mass migrations that would have a lasting effect on the peopling of the continent. Germanic tribes had been swept westward by the Hunnish advance: the Franks, for example, overran much of Gaul, creating the embryo of modern France; the Angles and Saxons invaded Britain, eventually creating a unified kingdom of England. Meanwhile, the Slavs, who originated in Asia, shifted westward from the steppes of eastern Europe to occupy territories once held by the Germanic tribes.

SCOURGE OF GOD. Although Pope Leo I persuaded Attila the Hun not to ransack Rome in A.D. 452, this Italian plaque commemorates the barbarian leader as "The Scourge of God."

THE VIKINGS: VISITATIONS OF TERROR



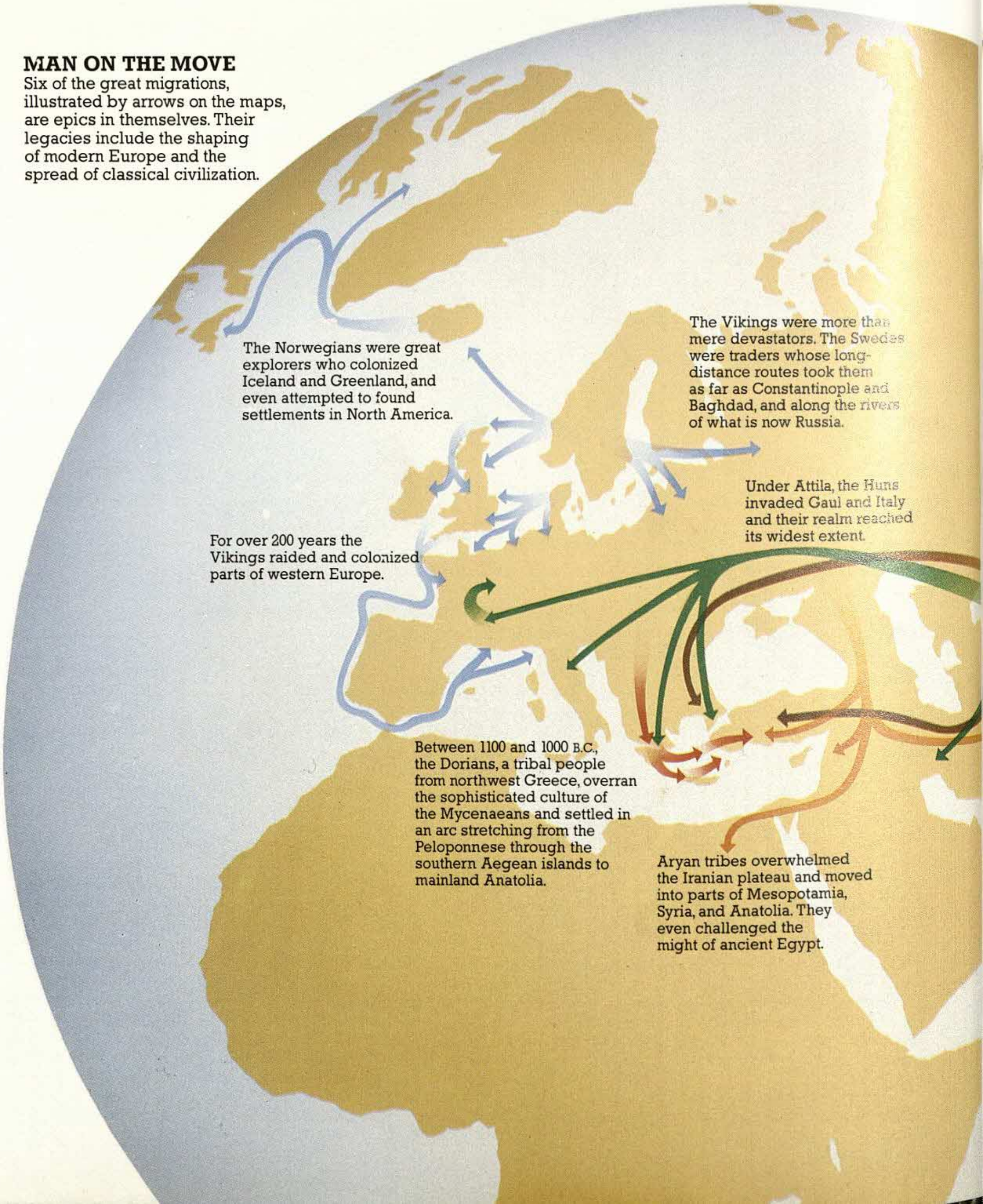
VIKING LONGSHIP. The approach of this longship, which dates from before A.D. 800 and is now in the Viking Ship Museum in Oslo, would once have signaled orgies of bloodshed, smoke, and plunder.

Toward the end of the 8th century A.D., the pagan Vikings first appeared on the horizons of western Christendom. And, for the next 200 years, the prayer which rang out from the churches of Europe echoed the terror inspired by the early Danes, Swedes, and Norwegians. "From the fury of the Northman, O Lord, deliver us."

The Vikings were coastal farmers whose adventure was triggered by the pressure of a booming population on limited farming land in Scandinavia. This was aggravated by the practice of primogeniture, whereby a chieftain's domain passed to his oldest son, leaving the younger sons to form a volatile class of land-hungry warriors. The development of the longship gave Scandinavia the means to export its quarrelsome surplus manpower.

The migratory surge was over by about A.D. 1000, but it left its legacy around Europe. The Rus, who gave their name to Russia, were a band of 9th-century Vikings who made their capital at Kiev. And the Normans who settled in France, Britain, and Sicily were descendants of the Vikings.

MAN ON THE MOVE
Six of the great migrations, illustrated by arrows on the maps, are epics in themselves. Their legacies include the shaping of modern Europe and the spread of classical civilization.



The Norwegians were great explorers who colonized Iceland and Greenland, and even attempted to found settlements in North America.

The Vikings were more than mere devastators. The Swedes were traders whose long-distance routes took them as far as Constantinople and Baghdad, and along the rivers of what is now Russia.

Under Attila, the Huns invaded Gaul and Italy and their realm reached its widest extent.

For over 200 years the Vikings raided and colonized parts of western Europe.

Between 1100 and 1000 B.C., the Dorians, a tribal people from northwest Greece, overran the sophisticated culture of the Mycenaeans and settled in an arc stretching from the Peloponnese through the southern Aegean islands to mainland Anatolia.

Aryan tribes overwhelmed the Iranian plateau and moved into parts of Mesopotamia, Syria, and Anatolia. They even challenged the might of ancient Egypt.

THE TURKS: FROM HERDSMAN TO EMPEROR

The Turks did not originate in Turkey but in the foothills of the Altai mountains of central Asia, thousands of miles to the east. In the 6th century A.D., the pastoral Turkic tribes emerged as leaders of a nomad confederation. Over the next few centuries, they spread onto the central Asian steppe before settling on the Anatolian plateau that now bears their name. And it was here that, under the Ottomans, they built an empire which was later to become the equal of any European power, covering much of Eastern Europe, North Africa, and the Middle East.

Paradoxically, the Ottomans' very strength dealt a trump card to Europe. Because the Turks blocked the overland trade routes to the east, European explorers were forced to look for sea passages to the fabled lands of silks and spices. In their lonely voyages across the ocean, these explorers gave Europe global interests that the mighty Ottomans never quite attained.

TURK TERROR. In this contemporary painting by a French artist, the Turks led by the Ottoman sultan, Mehmet II, lay siege to Constantinople (now Istanbul) in 1453. The city, the last bastion of the Byzantine Empire, fell to the Turks after a siege of six weeks.

THE ARYANS: BARBARIAN BEARERS OF A GLOBAL LANGUAGE

In the second millennium B.C. waves of herdsmen started to flow southward from the steppes of central Asia and the Ukraine. These barbarian peoples shared a common family of languages known today as Indo-European. They drove horse-drawn, spoke-wheeled chariots, which gave them mobility and strength in war.

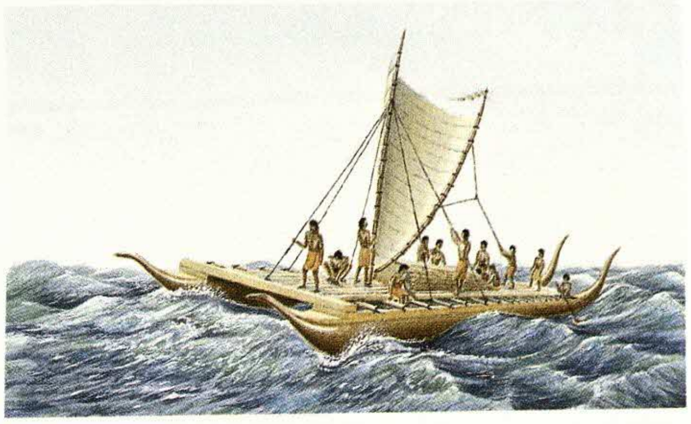
One group invaded India from the northwest, probably contributing to the sudden fall of the Indus Valley civilization. With the Aryans came closely related tribes, such as the Kassites, the Mittani, and the Hittites. These peoples were Indo-European speakers; their rulers sometimes had pure Aryan names; and many of them worshiped Aryan gods.

The language family and the charioteering practice traveled northward and westward too. In Europe, vigorous new tribes, such as Dorian Greeks, Latins, Celts, Germans, and Slavs, started to emerge. The English word "brother" is *"Bruder"* in German, *bhrátar* in Sanskrit, and *frater* in Latin. The Indo-European language family is the largest on earth today—its tongues are spoken by half the people in the world.

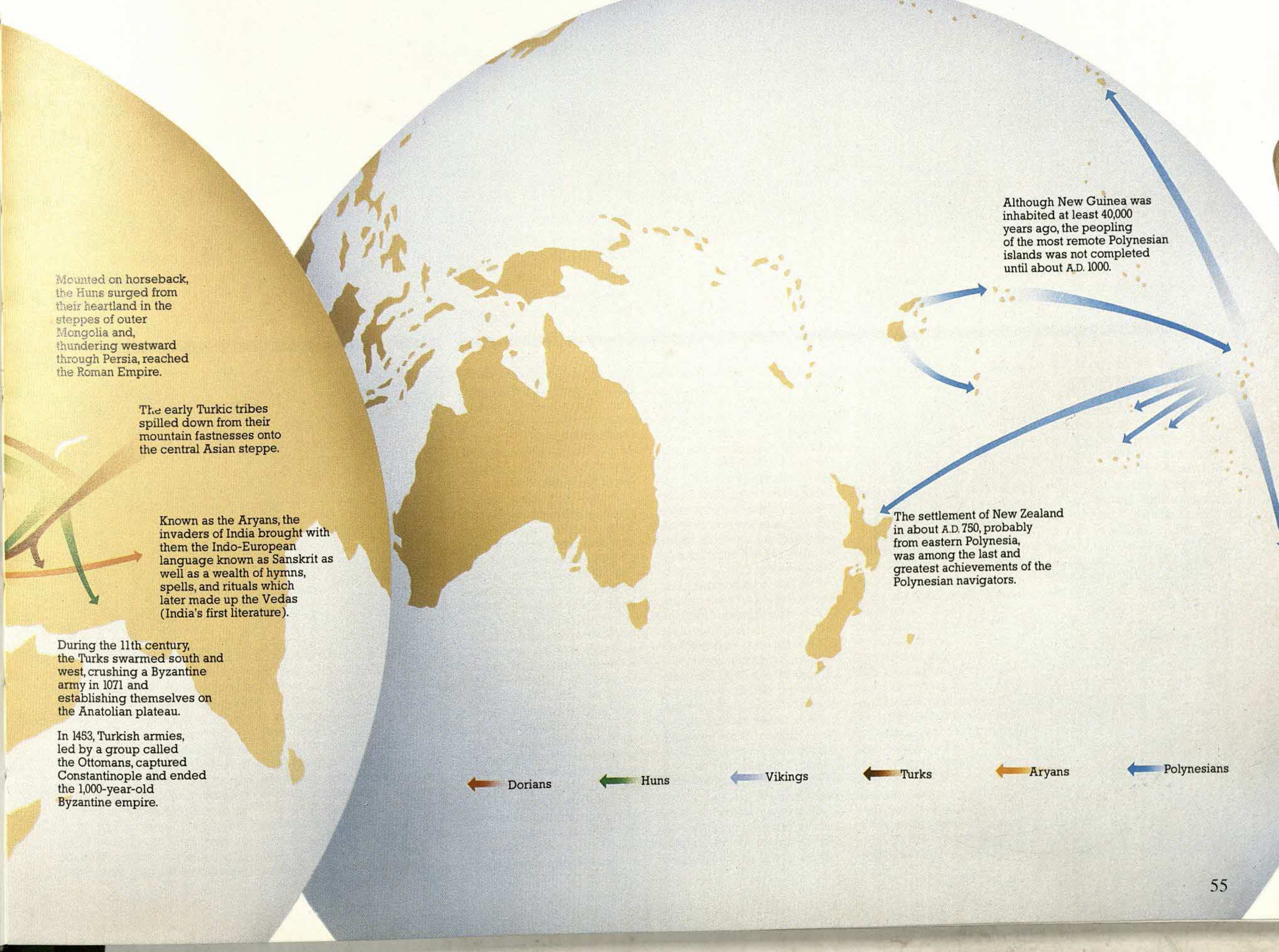
THE POLYNESIANS: STONE AGE SAILORS

Oceania is an island-spangled expanse of the Pacific Ocean that stretches for thousands of miles between Asia and the Americas. The colonization of this vast sea is a tribute to the seafaring skills of its Stone Age settlers, the ancestors of today's Melanesians, Micronesians, and Polynesians.

The great period of expansion probably began in about 1500 B.C. when the Lapita people, the ancestors of the Polynesians, moved across Oceania's blue vastness, carrying with them their food plants and domestic animals. They knew wind and wave patterns well, and navigated by the sun and stars. To discover lands beyond the horizon, they probably employed skills that are still in use today, such as studying the flight of birds toward landfall, the drift of vegetation, and even the pattern and coloring of distant cloud masses, which change in character as they pass over an island.



OCEANGOING CANOE. The traditional craft of the Polynesians are double canoes and single outriggers, equipped with matting sails.



Mounted on horseback, the Huns surged from their heartland in the steppes of outer Mongolia and, thundering westward through Persia, reached the Roman Empire.

The early Turkic tribes spilled down from their mountain fastnesses onto the central Asian steppe.

Known as the Aryans, the invaders of India brought with them the Indo-European language known as Sanskrit as well as a wealth of hymns, spells, and rituals which later made up the Vedas (India's first literature).

During the 11th century, the Turks swarmed south and west, crushing a Byzantine army in 1071 and establishing themselves on the Anatolian plateau.

In 1453, Turkish armies, led by a group called the Ottomans, captured Constantinople and ended the 1,000-year-old Byzantine empire.

Although New Guinea was inhabited at least 40,000 years ago, the peopling of the most remote Polynesian islands was not completed until about A.D. 1000.

The settlement of New Zealand in about A.D. 750, probably from eastern Polynesia, was among the last and greatest achievements of the Polynesian navigators.

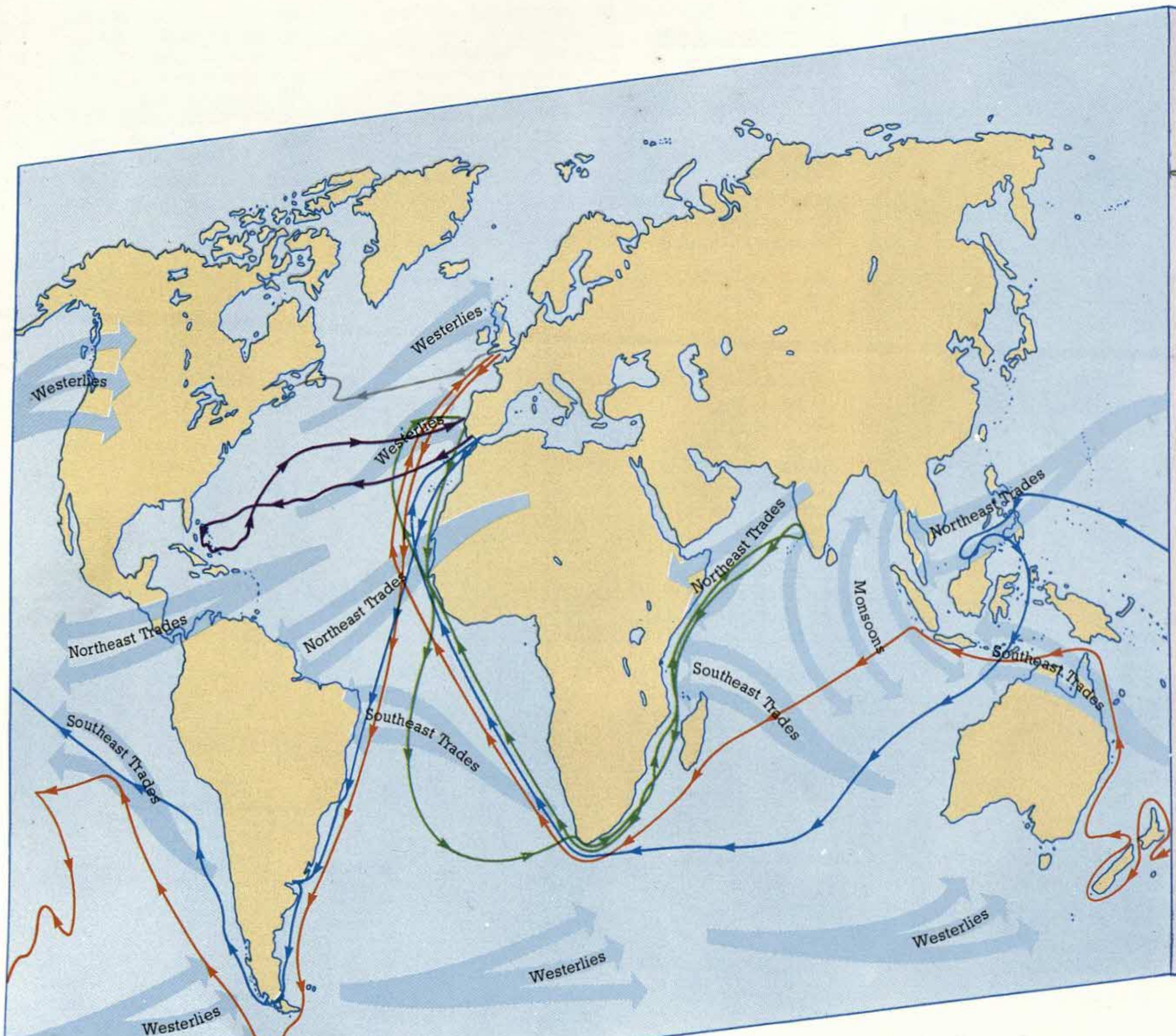
Discovery, Empire, and Independence

In the Middle Ages the earth was thought to be a flat plain surrounded by waters, with Jerusalem at its center and Paradise somewhere in the Far East. Then, in the late 15th and early 16th centuries, Europe's conquest of the sea revolutionized man's knowledge of his planet and helped to give Europe a new supremacy in world affairs.

Explorers such as Columbus, Vasco da Gama, and Magellan enmeshed the world with a cat's cradle of communication routes. Soldiers, traders, missionaries, and administrators soon followed in their wake, tightening the strings of European control.

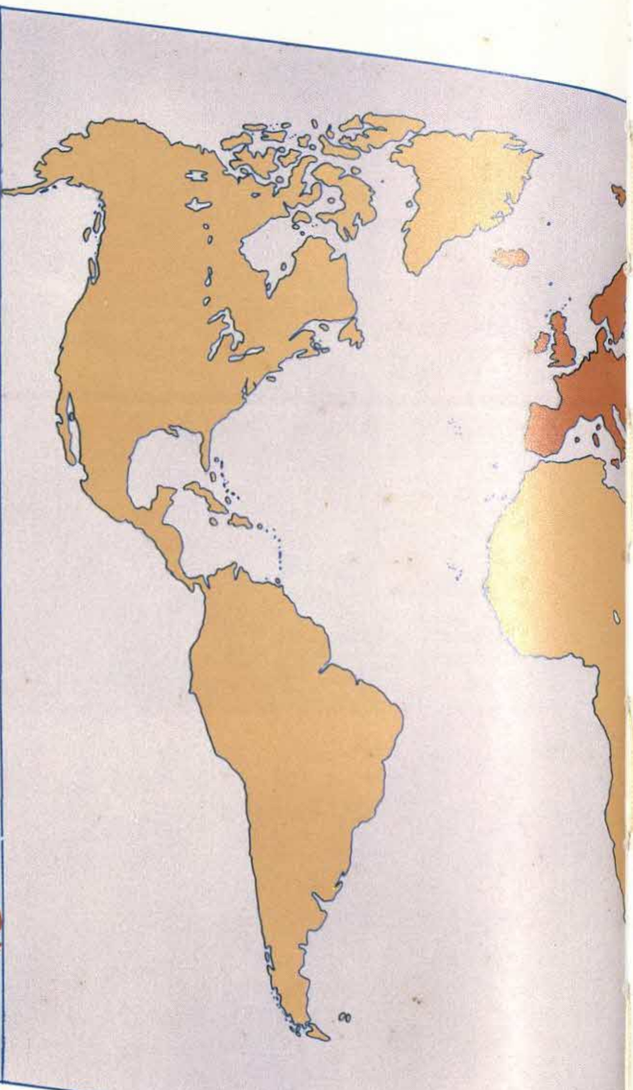
In trickles at first and then in a human flood, Europeans overwhelmed the new lands. They settled especially in temperate zones suited to their crops and flocks. The whole bio-luggage of Europe was freighted abroad. European pests, weeds, and diseases — sparrows, dandelions, and measles were among the most invasive — wreaked havoc among the plant and animal species of the new worlds.

By the standards of ancient Rome, China, and Egypt, the colonial empires of Europe were short-lived. But the pageant of empire had left the planet with a wholly new geography of life and culture.



THE AGE OF DISCOVERY

- ▬ Columbus (1492-93)
- ▬ Cabot (1497)
- ▬ Vasco da Gama (1497-99)
- ▬ Magellan (1519-22)
- ▬ Cook (first journey: 1768-71)



THE AGE OF EMPIRE

🟫 Areas controlled by a European colonial power (including Russia) for a period between 1500 and 1914

1. THE WORLDFINDERS

The great age of exploration began in the mid-14th century, when European sailors ventured out into the Atlantic. Mariners rediscovered the Canary Islands, which the Romans had known as the "Fortunate Isles." As Spain settled the archipelago and as Portugal settled the neighboring Madeiras and Azores, Europe acquired Atlantic outstations — springboards for the oceanic leaps to come.

It was from the Canaries that Christopher Columbus weighed anchor on August 3, 1492. The great Genoese navigator, financed by the king and queen of Spain, went on to discover the Americas by mistake: he was sailing westward in the hope of reaching the silks and spices of Asia. In the following decades, the legendary wealth of the Orient continued to act as a great magnet for explorers and their patrons, whether they were looking for easterly or westerly routes. Portuguese navigators, such as Vasco da Gama, who completed the first trip to India and back in 1499, sailed south and east. Spanish navigators, such as Ferdinand Magellan, whose expedition was the first to circumnavigate the globe, in 1519–22, sailed south and west. English, French, and Dutch navigators generally looked for passages in the northern hemisphere. John Cabot, for example, was authorized to travel westward to Asia by Henry VII, king of England — but instead he discovered Newfoundland in 1497.

FLAGSHIP. The *Santa Maria* had two square sails with a lateen sail at the stern.

The ship that first opened the seas was the three-masted Portuguese caravel, rigged with triangular lateen sails and designed for working around gusty coasts. The lateen (an Arab invention) allowed mariners to sail much closer to the wind. But for long oceanic voyages, square sails were required to catch the full force of a fair wind behind the ship. The result was a craft like Columbus's flagship *Santa Maria*: square-sailed but with a lateen at the stern.

The planet's winds were the seafarers' great energy resource. Particularly important were the great rotating cogwheels of the weather machine which spin north and south of the equator. These revolving air masses create the Trade Winds, which drove Columbus to the Americas and Magellan across the Pacific.

Prevailing westerlies in the northern hemisphere provided an airstream in which ships could return to Europe from America. The same winds in the southern hemisphere powered ships around the southern oceans. The monsoon pattern, blowing from the north in winter and the south in summer, helped the passage to and fro across the Indian Ocean.

Apart from storms, the mariners' great enemy was the doldrums, the equatorial belt of pitiless calms in which many a seaman learned terror of a flat sea's indifference.

By the 18th century, mapmakers were already producing a reasonable picture of the world we know today. The first successful marine chronometer — developed in 1761 by the British horologist John Harrison — offered a reliable means of measuring longitude. People still believed, however, that some vast southern continent must exist to balance the mass of Asia in the north. The British Captain Cook proved, on his first voyage of 1768-1771, that Australia could not be this continent. He later disproved the theory of a weighty southern continent altogether.

2. GLOBAL LANDLORDS

By 1914, the habitable earth was almost entirely controlled by Europeans or people of European descent. Africa was carved up in a late-19th-century scramble for possessions that left only Liberia and Ethiopia as lonely pockets of self-rule. And India had become a British imperial possession in 1858.

Other countries were more subtly exploited. While merchant companies tapped their economic resources, power was exercised more by manipulating local rulers than by formal conquest. Nevertheless, Europe's military hardware — from musket to Maxim gun — was the ultimate arbiter in any disputes. In 1900, for example, the Chinese who had risen against the foreigners in the Boxer Rebellion were crushed by force of arms.

Conquests were most spectacular in the new worlds. No sooner were America and Australasia discovered than they were completely overrun, their often sparse native populations being replaced by Europeans as the dominant ethnic groups.

The empire-builders' conquests were biological as much as military. European diseases such as influenza, whooping cough, and measles proved lethal to native populations that had no immunity to European infection. Smallpox, for example, accompanied the conquistadores through Latin America, exterminating vastly more Aztecs and Incas than gunpowder ever did. Settlers' cattle, horses, rabbits, rats, and weeds escaped and ran wild, bursting onto virgin lands with the same intrusive self-assurance as the human pioneers.

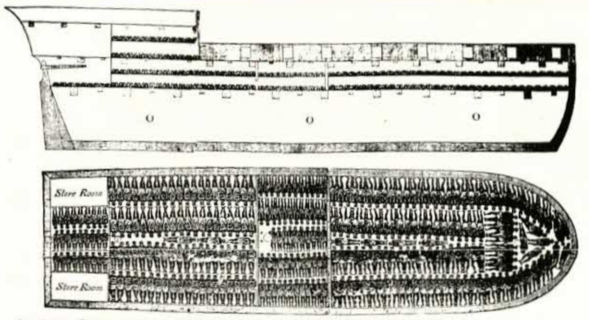
The new worlds sprouted new versions of Europe as vast numbers of Europeans emigrated. Between the mid-19th century and 1914, one person in ten left the mother continent to seek opportunities elsewhere. English, Scots, Irish, Russians, Germans, Italians, Swedes, Slovaks, Magyars,

THE PEOPLE BUSINESS

Between the 16th and the mid-19th centuries, black Africa lost almost 10 million of her inhabitants to the Americas. The Africans did not go willingly; they were victims of the Atlantic slave trade and the thinly populated New World's voracious needs for labor.

Ships bearing captives from Africa started crossing the Atlantic in 1530, destined for the Spanish and Portuguese sugar plantations. Profits were so great that the English, the French, and the Dutch soon joined in. By the end of the 18th century, millions of men, women, and children had been exported in the slavers' holds.

A three-cornered traffic evolved, slickly keyed to the Atlantic pattern of winds and currents. Ships laden with European merchandise sailed for West Africa, where the goods were swapped for slaves. The slaves were off-loaded in the New World, and the same ships returned to Europe, reloaded with the produce of the American plantations: sugar, tobacco, rum, coffee, cotton, and other goods.



SLAVE STOWAGE. At least one-fifth of the 609 slaves crammed on board the *Brooks* died on their journey to the Americas.

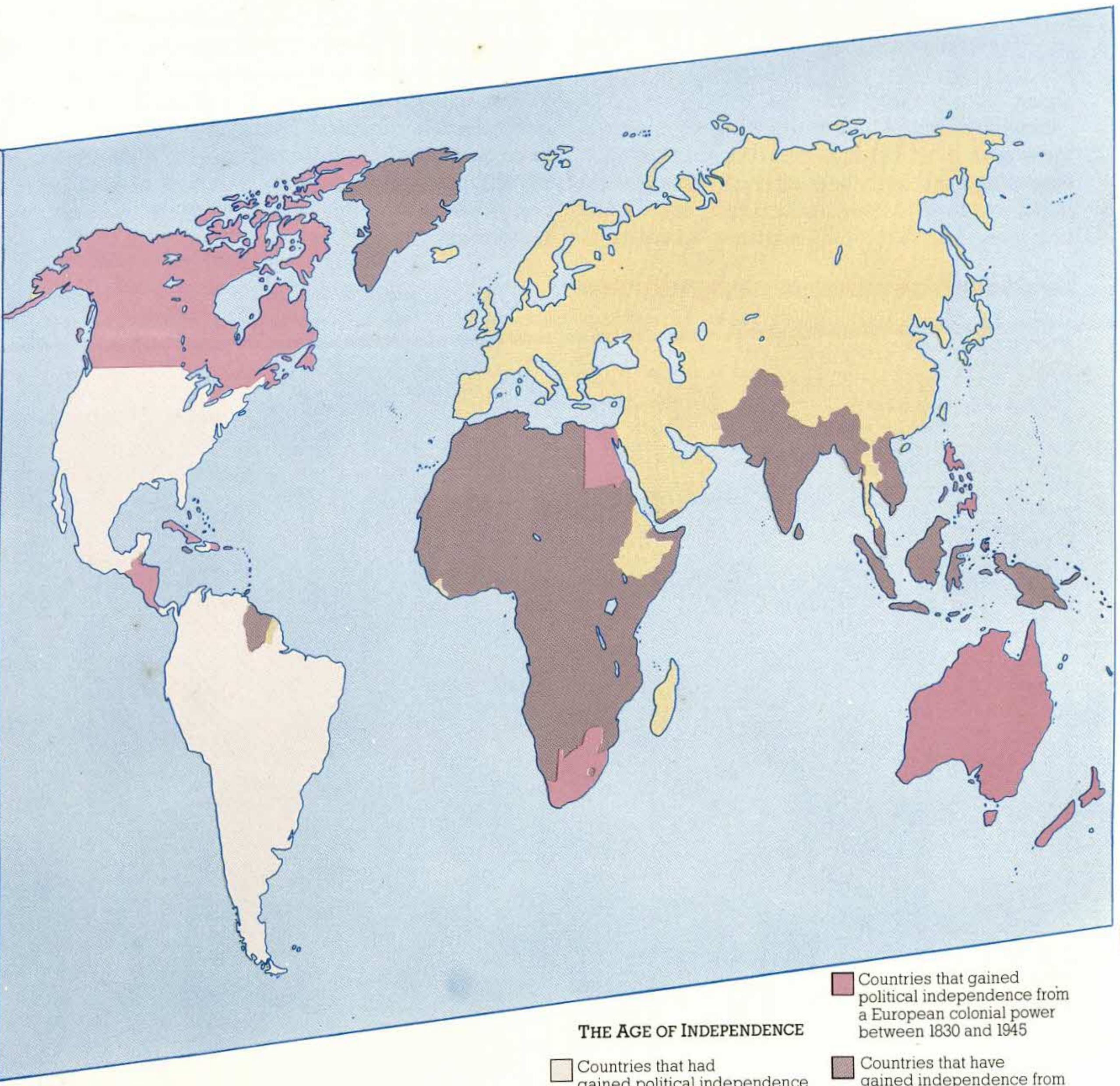
Ample evidence has survived of the human cruelties. Slaves were crammed between decks like herds of human cattle or even (in the words of one captain) "like books on a shelf."

Those who survived the journey to the Americas might simply be worked to death on arrival — new shipments of slaves were sometimes required every few years in order to repeople entire plantations.

It was not until the middle of the 19th century that the slave trade was eradicated. However, the new worlds still needed workers and, by then, European expansion had triggered some major population movements among non-European peoples. Masses of Chinese emigrants moved to work in southeast Asia and California. This was the era when "Chinatowns" started to spring up in cities as far apart as San Francisco, Havana, and London. Meanwhile, Indian emigrants moved in great numbers to East and South Africa and to the Caribbean, to take advantage of the new opportunities there.

Many of the unskilled Asian laborers, widely known as "coolies," went under long-term, enforceable contracts. Working on railroads, plantations, and mines, they lived in conditions of virtual serfdom. This indenture system, though much criticized, was not abolished until the 1920's.

🟧 Extent of Europe



THE AGE OF INDEPENDENCE

☐ Countries that had gained political independence from a European colonial power by 1830

🟥 Countries that gained political independence from a European colonial power between 1830 and 1945

🟫 Countries that have gained independence from a European colonial power since 1945

BRITISH RULE. This 18th-century painting of an officer on his elephant is evidence of British power in the subcontinent — long before India officially became a British possession.

Greeks — they all crowded the new steamships and settled wherever climates were favorable, to farm the land, start workshops, build railways, and found businesses. America was the big magnet, the United States alone absorbing 30 million new inhabitants. But there were other important destinations, such as New Zealand and the coasts of Australia. Within the Russian empire, 7 million peasant colonists crossed over from European Russia into the arable belt of Asiatic Siberia. In total, the European exodus involved 50 million people — the biggest population movement ever.

3. THE END OF EMPIRES?

Two world wars in the 20th century broke Europe's grip on the globe. And the new superpowers, the United States and the Soviet Union, both proclaimed themselves hostile to the principles of direct political imperialism.

The process of decolonization, however, had begun long before the carnage of the world wars. Soon after their establishment, many New World settlements had started to develop a sense of their own interests and identity. Inevitably, they sought political independence. Thirteen of Britain's colonies in North America were first to cut themselves adrift, winning independence as the United States in the American Revolution (1775–83). Between 1810 and 1830, virtually all of Latin America was liberated too.

A second great wave of emancipations occurred within the cloak of the British Empire. The "white dominions" of Canada, Newfoundland, Australia, New Zealand, and South Africa were granted increasing responsibility for their own affairs, achieving autonomy as the British Commonwealth of Nations in 1931.

The third great wave began after 1945, and was accompanied by huge upheavals. One milestone was passed when India was granted independence from Britain in 1947, following Mahatma Gandhi's long campaigns of civil disobedience. Ghana's independence in 1957 initiated a sequence of generally peaceful handovers in Africa and the Caribbean. But there were traumas too. Vietnam (1954) and Algeria (1962) both won freedom from France after periods of violent conflict. The armed struggle for independence in Portugal's African colonies of Angola and Mozambique did not end until 1975.

Flag-waving jingoists at the turn of the century described the "civilizing mission" of empire. Businessmen, on the other hand, believed that empires existed to provide industrial Europe with markets, commodities, and living space for her surplus populations. The age of empires created a global economy, connecting distant continents through bonds of trade. The fact that political control was not always essential to ensure profitable commerce explains the Victorian statesman Benjamin Disraeli's shrewd remark that "colonies do not cease to be colonies because they are independent." This remains the paradox of many new nations today: although politically emancipated, they remain the clients of an industrial world that still governs ghost empires of influence.

REMOVING THE TRACES OF EMPIRE. Workmen remove a bust of the Belgian king from a plinth in Stanleyville (now Kisangani) during a drive to erase all traces of the Belgian administration. The Belgian Congo (now Zaire) gained independence on June 30, 1960.

Earth's People: Health and Wealth

About 5 billion people are alive today. Every second, three more are added to the total, a growth of more than 10,000 an hour, and over 80 million in the space of a year. The world population has doubled since 1950; and even though the rate at which it is growing has slowed from its peak of 2.4 percent a year in 1965, it will have risen to over 6 billion by the turn of the century. This massive expansion has been fueled not by an increasing birth rate but by a gradual extension of life expectancy and by a huge reduction in the number of children who die when young. More than half the people now living are under 25. In Africa, almost half are under 14.

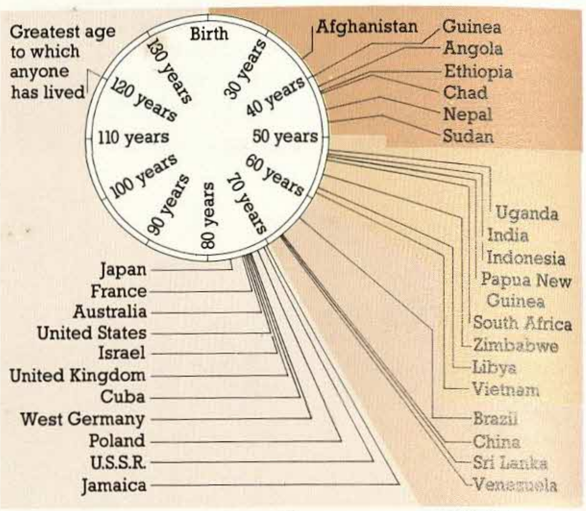
In Europe, Japan, and North America, however, the number of births has already dropped so as to be almost in balance with the number of deaths, and the population there is now virtually stable. For the world as a whole, this balance will not come, according to United Nations predictions, until about the year 2110, when there might be 10.5 billion people striving for living space.

Population is concentrated now, as it always has been, in those tolerable climatic belts where people can live most comfortably and where enough food can be grown to support them. These areas have given birth to the great cities that are the hallmark of modern industrial society. Nearly half of the world's population — over 2.27 billion people — are now urbanized, half of them in cities of more than 500,000 people. This increasing concentration of the species in great urban patches is true of both the developed and the developing world. By the turn of the century, twice the number of people will be living in the cities of the Third World, where the great bulk of population growth is occurring, as in those of the relatively stable north.

THE SPAN OF LIFE

Three-quarters of the world's people cannot expect to reach their sixtieth birthday. Poverty, an inadequate diet, the widespread absence of a safe water supply, and ignorance of even the simplest rules of hygiene all help to lower the average life expectancy in the less developed countries to 57 years.

That figure is an average for men and women taken together. In fact, in most countries, women tend to live slightly longer than men. However, the opposite is true in the Indian subcontinent and Iran. The low status of women and the wear of giving birth to many children may contribute

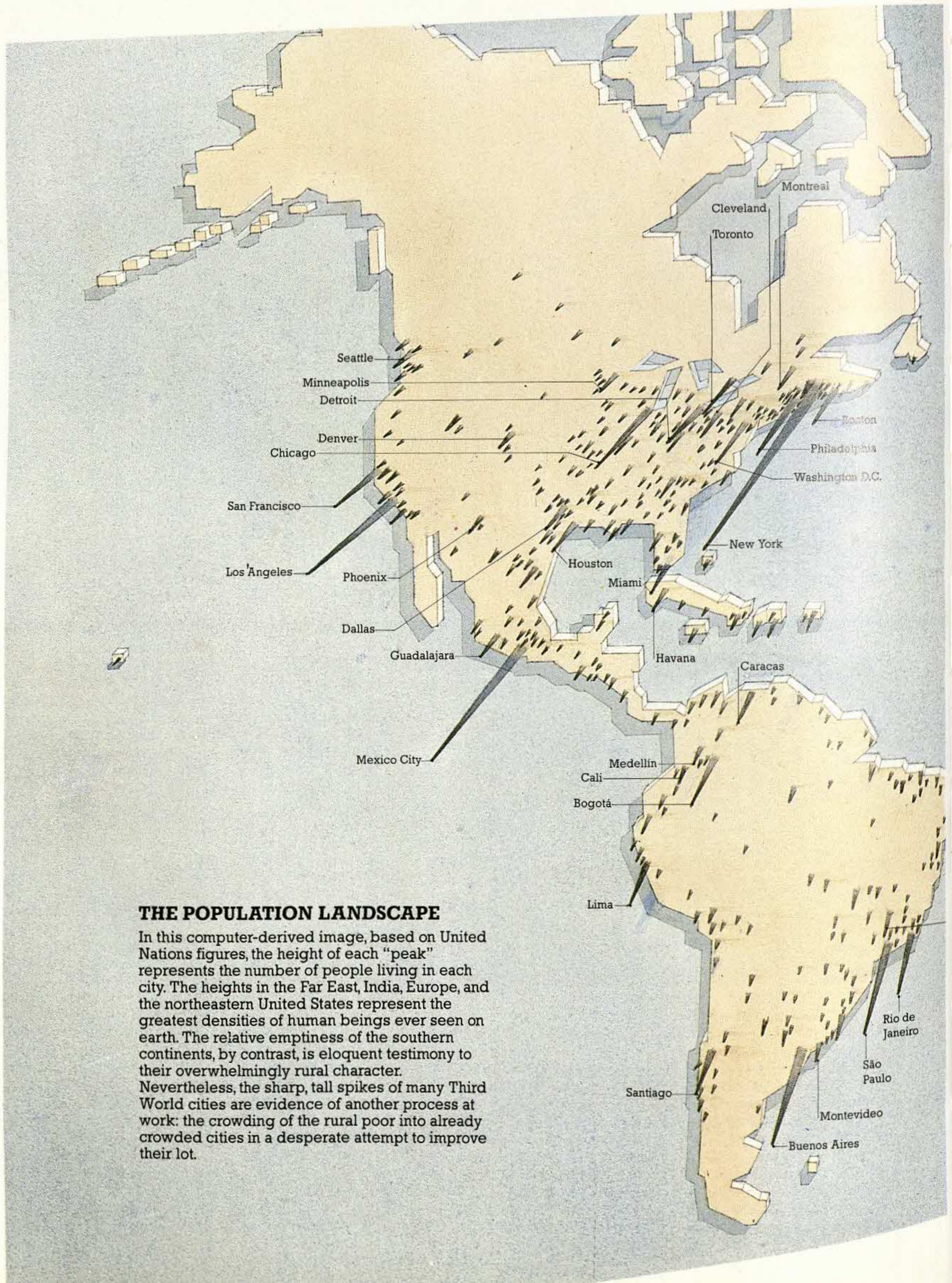


LIFE CLOCK. The chart shows life expectancy at birth for selected countries in 1980-1985.

POPULATION STATISTICS

The following statistics show the number of millions of people in countries with 1985 populations of 300,000 or more. Predictions for the year 2000 are from estimates prepared by the United Nations.

	1985	2000
Afghanistan	15.6	24.2
Albania	3.0	4.1
Algeria	22.0	35.2
Angola	8.8	13.2
Argentina	30.6	37.2
Australia	15.7	18.7
Austria	7.5	7.5
Bahrain	0.4	0.7
Bangladesh	101.1	145.8
Belgium	9.9	9.9
Benin	4.0	6.4
Bhutan	1.4	1.9
Bolivia	6.4	9.7
Botswana	1.0	1.9
Brazil	135.6	179.5
Bulgaria	9.2	9.7
Burkina Faso	6.9	10.5
Burma	39.5	55.2
Burundi	4.6	7.0
Cameroon	9.7	14.4
Canada	25.6	29.4
Cape Verde	0.3	n.a
Central African Republic	2.6	3.7
Chad	5.0	7.3
Chile	12.1	14.9
China	1,063.1	1,255.7
Colombia	28.7	38.0
Comoros	0.4	n.a.
Congo	1.7	2.6
Costa Rica	2.6	3.6
Cuba	10.0	11.7
Cyprus	0.7	n.a.
Czechoslovakia	15.6	16.8
Denmark	5.1	5.1
Djibouti	0.3	n.a.
Dominican Republic	6.2	8.4
Ecuador	9.4	14.6
Egypt	46.8	65.2
El Salvador	5.5	8.7
Equatorial Guinea	0.4	0.6
Ethiopia	36.5	58.4
Fiji	0.7	0.8
Finland	4.9	5.0
France	54.6	57.1
Gabon	1.2	1.6
Gambia	0.6	0.9
Germany, East	16.6	16.6
Germany, West	61.1	59.8
Ghana	13.5	21.9
Greece	9.9	10.7
Guatemala	8.4	12.7
Guinea	5.4	7.9
Guinea-Bissau	0.9	1.2
Guyana	1.0	1.2
Haiti	6.6	9.9
Honduras	4.4	7.0
Hungary	10.8	10.9
India	761.2	961.5
Indonesia	164.9	204.5
Iran	45.1	65.6
Iraq	15.7	24.9
Ireland	3.6	4.2
Israel	4.3	5.4
Italy	56.9	58.2
Ivory Coast	9.8	15.6
Jamaica	2.3	2.8
Japan	120.1	127.7
Jordan	3.5	6.4
Kampuchea	7.4	9.9
Kenya	20.6	38.5
Korea, North	20.1	27.3
Korea, South	40.9	49.5
Kuwait	1.8	3.0
Laos	4.4	6.2
Lebanon	2.7	3.6
Lesotho	1.5	2.3
Liberia	2.2	3.6
Libya	3.6	6.1
Luxembourg	0.4	0.4
Madagascar	10.0	15.6
Malawi	7.0	11.7
Malaysia	15.6	20.6
Mali	8.1	12.4
Malta	0.4	0.4
Mauritania	1.9	3.0
Mauritius	1.0	1.3
Mexico	79.0	109.2
Mongolia	1.9	2.7
Morocco	23.6	36.3
Mozambique	14.1	21.8
Namibia	1.1	n.a.
Nepal	16.5	23.0
Netherlands	14.5	15.0
New Zealand	3.3	3.7
Nicaragua	3.3	5.3
Niger	6.1	9.8
Nigeria	95.2	161.9
Norway	4.1	4.2
Oman	1.2	1.9
Pakistan	101.7	142.6
Panama	2.2	2.9
Papua New Guinea	3.7	5.3
Paraguay	3.7	5.4
Peru	19.7	28.0
Philippines	54.7	74.8
Poland	37.6	41.4
Portugal	10.1	11.0
Puerto Rico	3.3	n.a.
Qatar	0.3	0.5
Romania	23.1	25.6
Rwanda	6.1	10.6
Saudi Arabia	11.2	18.9
Senegal	6.5	10.0
Sierra Leone	3.6	4.9
Singapore	2.6	3.0
Somalia	5.6	7.1
South Africa	32.4	47.0
South Yemen	2.1	3.3
Spain	39.0	43.4
Sri Lanka	16.4	20.8
Sudan	21.6	32.9
Suriname	0.4	0.4
Swaziland	0.6	1.0
Sweden	8.3	8.1
Switzerland	6.3	5.9
Syria	10.6	18.1
Tanzania	22.5	39.1
Thailand	51.6	66.1
Togo	2.9	4.6
Trinidad and Tobago	1.1	1.3
Tunisia	7.2	9.7
Turkey	50.0	68.5
Uganda	15.7	26.8
U.S.S.R.	278.4	314.8
United Arab Emirates	1.3	1.9
United Kingdom	55.6	56.2
United States	237.7	268.1
Uruguay	3.0	3.4
Venezuela	18.4	27.2
Vietnam	59.5	78.1
Yemen	6.5	9.9
Yugoslavia	23.2	25.2
Zaire	33.1	52.4
Zambia	6.7	11.2
Zimbabwe	8.8	15.1



THE POPULATION LANDSCAPE

In this computer-derived image, based on United Nations figures, the height of each "peak" represents the number of people living in each city. The heights in the Far East, India, Europe, and the northeastern United States represent the greatest densities of human beings ever seen on earth. The relative emptiness of the southern continents, by contrast, is eloquent testimony to their overwhelmingly rural character. Nevertheless, the sharp, tall spikes of many Third World cities are evidence of another process at work: the crowding of the rural poor into already crowded cities in a desperate attempt to improve their lot.

to their relatively early death in these countries.

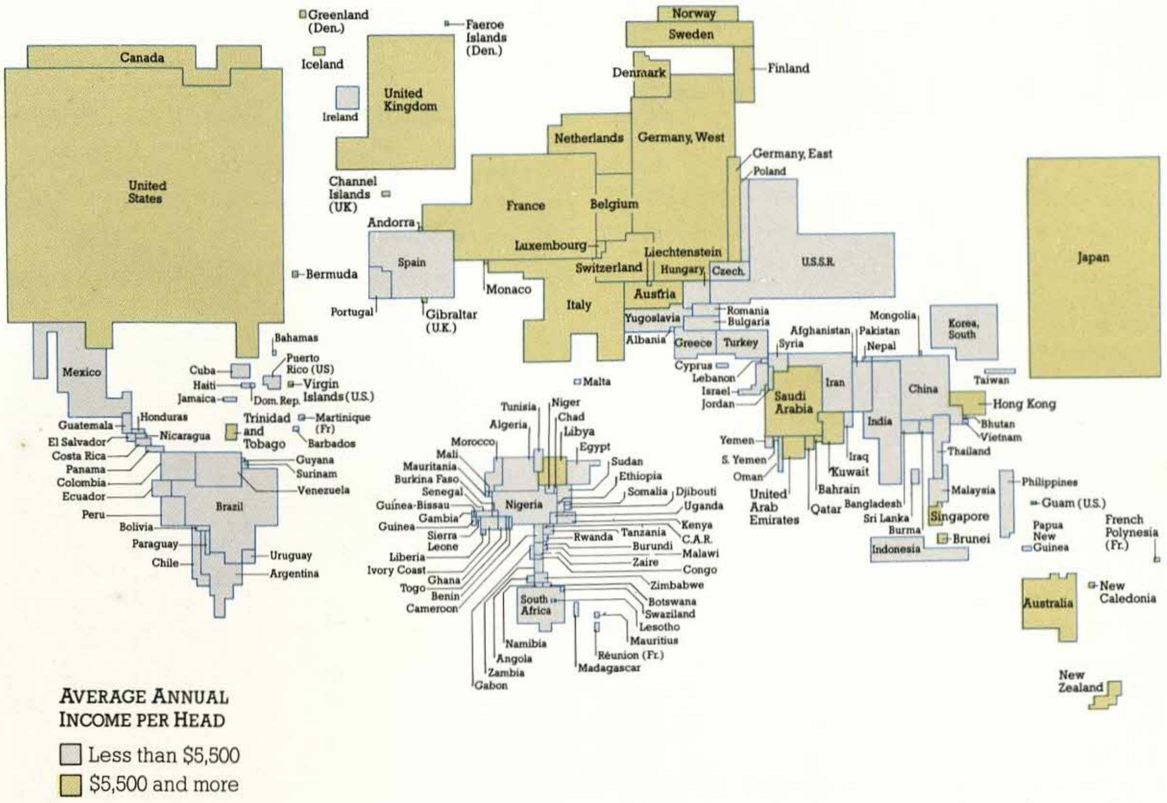
In the developed world, the general provision of health care, good food, and, above all, an appreciation of cleanliness have raised the average life expectancy for men to 73 years and for women to 79.

In parts of the developing world, educational programs have started to improve the prospects. The average life expectancy in less developed countries in 1955 was more than 16 years lower than it is today. In China, to take the outstanding instance of progress, the expectation of life was raised, between 1962 and 1982, from 39 to 69 years. Elsewhere, in Afghanistan and Sub-Saharan Africa, for example, the average age at death still hovers around 40.

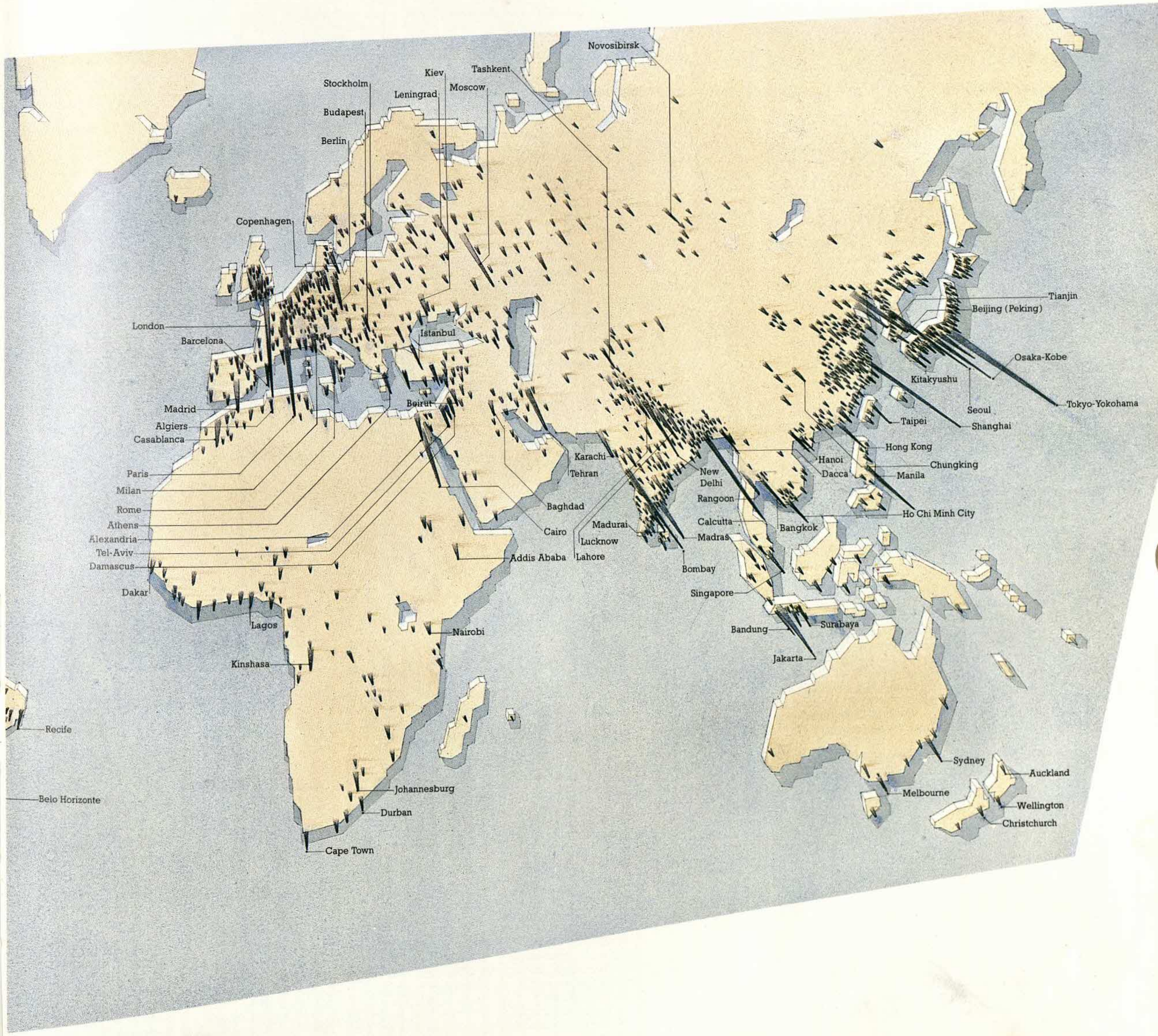
Meanwhile, in Japan, North America, and western Europe, the benefits of universal health care and education have extended life into the late 70's. These benefits have, however, produced the problems of an aging population in cultures where the aged are sometimes considered an expensive and unproductive burden.

THE WORLD'S WEALTH

In this distorted map, the area occupied by each country has been enlarged or reduced in proportion to its share of the wealth created each year in the world. In the shriveling of Africa and the great fattening of Europe and North America, the map reveals the great divide between the more developed industrialized nations of the "north," where 80 percent of the world's wealth is created by 28 percent of the world's population, and the predominantly agricultural "south," where nearly three-quarters of the world's people must subsist on a fifth of the world's goods. As a measure of relative wealth and poverty, each of the countries is colored — in broad categories — according to the average income of the people who live there. This is calculated by first adding up the annual output of each country's trade, services, and industry to give a total known as the Gross National Product (GNP). To calculate a rough idea of average income, the GNP is then divided by the population.



RICH AND POOR. The wealth of industrialized countries sets them apart from the poverty of those in the developing "south."



A Global Harvest

Food is mankind's raw energy resource — the fuel that fires the human boiler — and maintaining supplies constitutes man's biggest single concern.

Agricultural efficiency has increased at a staggering pace: in 1980 the world's farms produced twice as much food as they did in 1950. As a result, the earth today grows enough food to support its population, with plenty to spare. But the pattern of production is uneven, and many areas still go short.

Thousands of different types of plants are consumed by man, but just three — wheat, corn, and rice — account for about half of the world's harvest. By no means every niche of the planet's surface can be exploited for crop farming, however, for a combination of three basic factors — sunshine, moisture, and soil — determines where the global harvest can be gathered in. At present only 11 percent of the earth's land surface is farmed for crops, while a further 20 percent is thought to be cultivable.

BEYOND THE GREEN REVOLUTION

One major factor in the recent boom in food production has been the development of new, high-yielding strains of wheat, corn, and rice. Cultivated with modern fertilizers, herbicides, pesticides, and irrigation techniques, these grains have generated what is known as the Green Revolution. The term was first coined to describe the transformation of farming in India but is now used wherever high-technology agriculture is applied in the developing world.

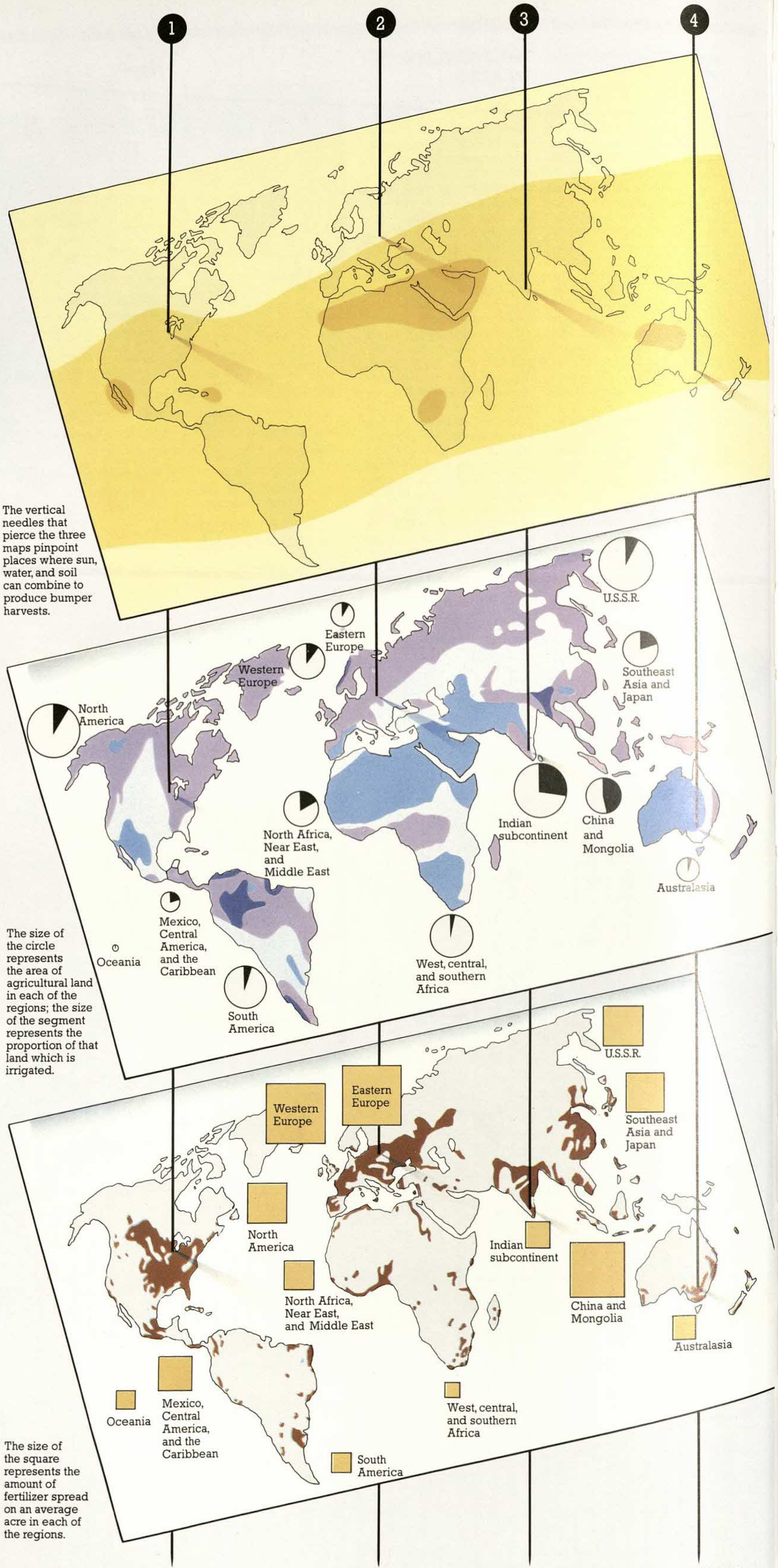
Bumper harvests have been the result. But the techniques, modeled on the practices of U.S. agriculture, have had their critics too. The chemicals required by high-yield strains are derived chiefly from fossil fuels, which have become increasingly costly since the oil crisis of 1973. Mechanized farming, too, guzzles our energy resources — about 25 gallons of gasoline are required to produce an acre of corn in the United States. Such farming tends to benefit the large farmer with capital to invest at the expense of the small farmer.

In the coming decades the world may well see some adjustment toward the kind of organic farming practiced in China. Here, crop waste is recycled to provide fertilizer, so that less synthetic matter is required. In addition, mixed cropping is practiced: grains are planted with legumes, such as peas and beans, which produce their own nitrogen for fertilizer through the bacteria in their roots. One legume — the soybean — is already a post-World War II success story in the developing world. It is grown increasingly for its high-protein content and adaptability, and its oil is used for making paints and chemicals, as well as margarines and cooking oils.

Perhaps the greatest hopes for feeding future generations lie in plant breeding and genetics. Resistance to pests and diseases can be bred into crops so that spraying with hazardous chemicals becomes increasingly obsolete. Strains may be developed to cope with the harsh climates of desert or tundra. Modern techniques of gene transfer offer possibilities for cultivating radically improved species. Tens of thousands of potentially edible species have been identified, and it may yet prove possible to carpet the world's most barren wastes with new forms of nutritious vegetation.

RICE BOWL. Traditional farming techniques are still practiced in the terraced rice fields of central Java.

MIXED CROPPING. Farm laborers in Guangdong province, southern China, tend a mixed crop of corn and beans.



The vertical needles that pierce the three maps pinpoint places where sun, water, and soil can combine to produce bumper harvests.

The size of the circle represents the area of agricultural land in each of the regions; the size of the segment represents the proportion of that land which is irrigated.

The size of the square represents the amount of fertilizer spread on an average acre in each of the regions.

1. AMERICAN CORN BELT. A combination of sunshine, rainfall, and fertile soils makes the American Midwest almost perfect for arable farms. Modern methods have quadrupled output since the 1930's.

2. UKRAINE WHEAT BELT. Huge, highly mechanized state farms dominate the fertile landscape of the Ukraine. High yields of wheat and corn are achieved unless there is a severe winter frost.

3. SOUTH INDIAN RICE BOWL. Since the 1960's, improved irrigation techniques and the introduction of high-yielding varieties have trebled rice production in the Indian state of Tamil Nadu.

4. AUSTRALIAN WHEAT BELT. The Australian state of Victoria is free from drought most years, and high yields — between those of the American Midwest and the Ukraine — are usually achieved.

SUNSHINE. The sun is at the start of the food chain. And since scientists believe that the sun has another 5 billion years of life ahead, the first of agriculture's major needs appears to be well catered for. Plants convert solar energy into food through photosynthesis. In general, therefore, the more sunshine there is, the higher the crop yield. Even the most efficient crop cover, however, cannot convert more than about 3 percent of incoming solar energy into the chemical energy of plant growth, or biomass. Only a fraction of this biomass will be edible food.

LEVELS OF SOLAR ENERGY

▨ Above average
▨ Average
▨ Below average

WATER. The sunnier the climate is, the more water plants need – for almost as much water is lost from a field of corn as would be evaporated from a lake of a similar size. Although there is no shortage of water on a global scale, its distribution is uneven. Farmers adjust to water deficits by irrigation. In China, 46 percent of agricultural land is irrigated. In North America and Europe, where most areas receive sufficient rainfall, about 10 percent of the land now benefits from some supplementary watering.

THE WATER BUDGET

▨ Large surplus
▨ Small surplus
☐ Small deficit
▨ Large deficit

SOIL. Crops need more than just sunshine and water. They also require soils rich in nutrients, such as nitrogen, potassium, and phosphorus. Naturally fertile soils account for only a small proportion of the earth's surface and are not evenly distributed among the continents. Even these soils need to be rested, or left fallow, unless the farmer can replace what he has removed in the crop. Soils that are not naturally fertile can be enhanced by the use of fertilizers.

▨ Areas with naturally fertile soils

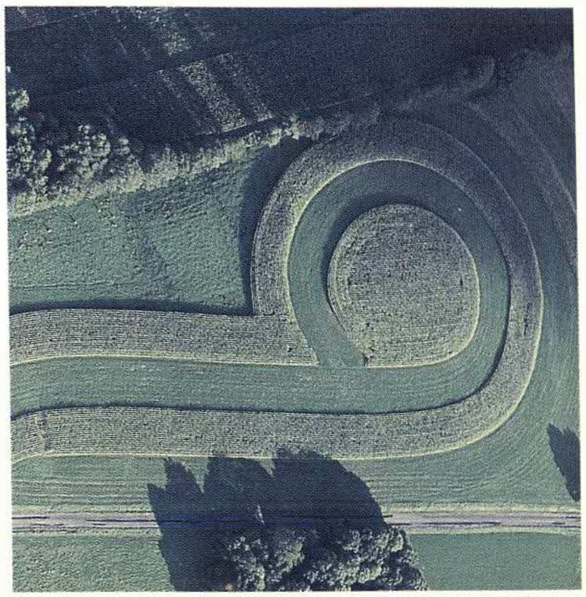
HOW THE PLANET PROVIDES

Climate and environment are the world's great chefs, giving Mexico its tortillas, Greece its goatsmilk cheese, China its pork spareribs, and Japan its seafood dishes. And it is regional variations in these two factors that strongly influence what is raised where.

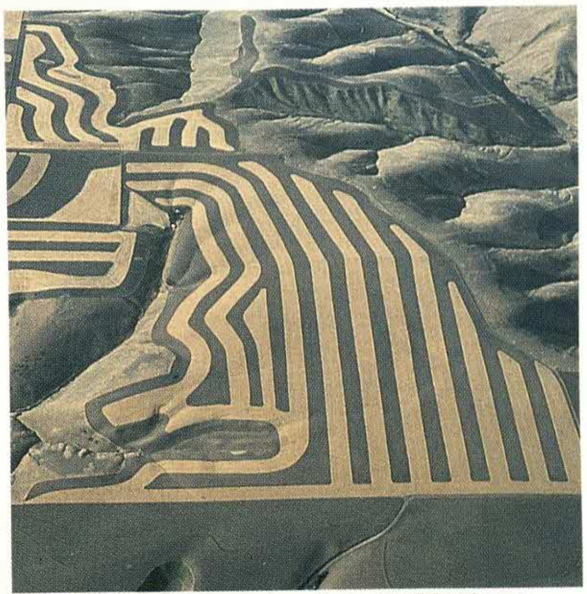
The world's three main cereals are wheat, corn, and rice, each of which has its special needs. Wheat is a crop of the temperate prairies and will tolerate very cold winters. Corn is vulnerable to frost and is therefore confined to a warmer climate band. And rice favors the special combination of warmth and copious rainfall that is found especially in monsoon zones.

Grain constitutes about half of the world's food production by weight, but similar factors associate other crops with particular environments: for example, grapes with Mediterranean climates, and the potato with dull, cloudy skies and clammy soils.

There are vast expanses of desert and bleak uplands whose lean and rocky soils support little more than coarse grasses. Since the human stomach cannot digest grass, it is the livestock here — in particular, the sheep and the goats — that act as our food converters, yielding meat, milk, and cheese.



STRIP CROPPING. In this aerial view of a farm in Ohio, strips of corn, following the contour lines, have been planted alongside strips of grass mixed with legumes.



WHEAT BELT. In this aerial view of a farm in Washington State, wheat has been harvested from the light strips, while the darker strips have been left fallow for a season.

Cattle can be raised in a temperature band stretching from the edge of the Sahara to the margins of the Arctic circle. But cattle, like sheep, are ruminants whose digestives system calls for a diet chiefly of grass, and which require a wide grazing area. They are an inefficient food resource for the world's overpopulated regions and, due to their vulnerability to the tsetse fly, are especially scarce in the humid tropics. Pigs provide the world's main source of meat. A pig's diet is adaptable, and the creatures can be farmed in fairly confined spaces. China is the main producer of pork, yielding nearly 40 percent of the global total.

Fish, like all other foodstuffs, display preferences for habitat. Cod favors the cold waters of the North Atlantic, while tuna prefer warmer seas; flatfish, such as halibut, feed on the seabed, while herring cruise close to the surface. The principal fishing grounds are all in coastal zones where nutrients, leached from the land, mix with the rich sediment that is swept up from the sea floor by ocean currents and offshore winds. These waters comprise our teeming marine meadowlands, thick with tiny plankton supporting larger organisms that are, in turn, consumed by shoaling fish.

In total, the earth's fishing fleets bring in some 68 million tons a year. Japan, with its intricate network of islands, has an ancient fishing tradition and remains the largest single harvester of the sea.

FEAST AND FAMINE

If the global harvest were shared out equally, each person could receive 5 lb (2.3 kg) of food per day. Hunger need never be with us.

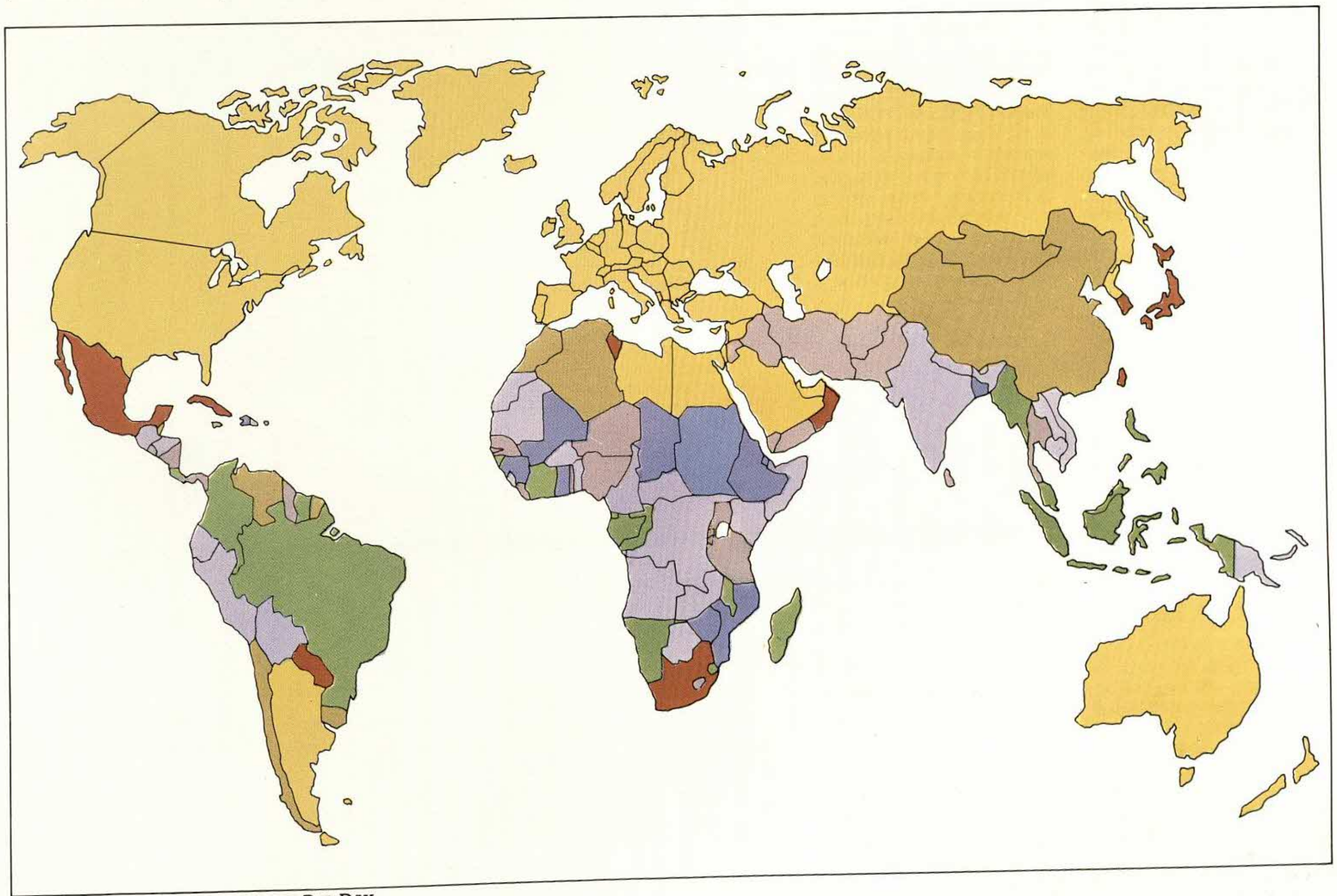
The reason why famines still take their terrible toll has more to do with the complexities of politics, economics, storage, and distribution than with the physical capacity of the earth itself. The planet is fertile. Science has opened up new possibilities. And, in the opinion of many experts, the age-old scourge of hunger could, with global cooperation, be eradicated by the year 2000.

To meet future needs, we can colonize the world's inhospitable areas. The earth's total cultivable land is some 7.9 billion acres (3.2 billion hectares), of which less than half is currently being farmed. Although the remainder may be harsh or inaccessible terrain, we have the means to drain swamps, plant hillsides, and bring deserts into bloom.

One short-term response to starvation in the Third World is to transport surplus food from where it is stockpiled to where it is needed. The biggest grain exporters are the United States, Canada, Australia, and Argentina. Thanks to the Green Revolution, India, Thailand, Burma, and Suriname can now be added to the list of the smaller net exporters. Many others, for example Mexico and the U.S.S.R., would be net grain exporters but for the demands of livestock, which now consume more grain than grass.

In the long term, however, this does nothing to help farmers in poor countries to produce more. Indeed, pouring cheap food into the Third World can lower prices there so much that local farmers are put out of business. Except in emergencies, perhaps what poor countries need most is appropriate technology, transport facilities, education, and better administration.

One global measure of food production is provided by the average numbers of calories supplied by the agriculture of different countries. How many calories an individual actually needs depends on his or her body weight, type of activity, and the environmental temperature. Accounting for these variables, the Food and Agriculture Organization of the United Nations estimates the average daily needs of a person in Finland, where a relatively old population lives in a cold climate, at 2,710 calories per day. In Indonesia, where a youthful population lives in a tropical climate, the average is 2,160 calories per day.



CALORIES CONSUMED PER PERSON PER DAY

▨ Over 3,000
▨ 2,800 – 3,000
▨ 2,600 – 2,800
▨ 2,400 – 2,600
▨ 2,200 – 2,400
▨ 2,000 – 2,200
▨ Under 2,000

CALORIE COUNT. The map charts the average numbers of calories consumed per person per day in different countries of the world. In countries where each person receives less than 2,000 calories per day on average, it is inevitable that quite a high proportion of the population is sometimes hungry. War or drought, for example, can easily tip the balance between tenuous supply and growing demand. The result can be mass starvation, as in Ethiopia in 1984-85.

Managing the Planet's Future

Photographs taken by the first astronauts gave mankind a new vision of the world, as a fragile oasis in the sterile darkness of space. This image, above all others, crystallized a new understanding of the earth. From being a place that could be exploited and used at will, the world became a global environment to be managed and sustained. Scientists began to voice fears over continued indifference to the health of such global systems as the atmosphere, the tropical forests, and the world genetic pool, in which diversity — the only final guarantee of survival — was being ignorantly and widely reduced.

Like an oil tanker at sea, the course the world is following cannot be changed in an instant. The dauntingly difficult task that now confronts the human race is to reconcile two equally urgent and, in some ways, contradictory imperatives: first, to reduce the terrible poverty and hunger in the Third World; and, second, to lessen the strains on the biological systems of the planet.

HARNESSING CLEAN ENERGY

The environmental impact of fossil fuels — coal, oil, and gas — and their limited supplies have led to the search for renewable sources of energy.

Hydroelectric power at the moment supplies 7 percent of the world's energy needs. It is cheap, clean, and efficient, and by the 21st century, world hydroelectric output might be three times what it is today.

If only a tiny fraction of the solar radiation intercepted by our planet could be put into harness, it would supply all of humanity's energy needs. The problem is that solar energy is thinly spread over a vast area and needs to be collected, concentrated, and stored. Different regions, moreover, have very different potentials. Ethiopia may be a sunshine millionaire, but the United Kingdom is a pauper. The first solar power station, linked to an electricity grid and using computer-directed mirrors to focus the sun onto boilers, was opened in Sicily in 1981.

Three tidal power stations now operate in the world, in the Bay of Fundy in Canada, the Rance estuary in northern France, and Kislaya Bay in the Soviet Union. In each case, the incoming and outgoing waters pass through turbines at the dammed mouth of an inlet. There are, however, few sites in the world where the mouth is narrow enough and the tidal reach great enough to make such energy economical.

In the long term, the ocean's greatest asset may be the temperature difference between the surface and the depths. In the tropics, this may be as much as 40°F (22°C). By a process known as Ocean Thermal Energy Conversion (OTEC), floating offshore power stations can exploit the differential to condense and evaporate a fluid, driving turbine generators.

The wind has been explored with renewed interest since the

LOOKING AFTER LIFE

We still do not know, even approximately, the total number of species that live on the planet. New plants and animals are discovered each year, especially in the tropics. Meanwhile, the relentless growth both in human population and in the intensity of land use results in a steady encroachment on remaining wilderness areas. At least 34 species of mammals and 94 species of birds have been lost since the early 18th century. Uncounted numbers of insects, plants, fungi, and microorganisms have certainly disappeared without scientists ever having recognized their existence.

A Convention on International Trade in Endangered Species (CITES) now prohibits trade in 600 rare species of plants and animals, and a few of the rare species maintain a precarious existence in zoos and botanical gardens. But for most life-forms this is not the answer. The only secure way to prevent the destruction of our wildlife heritage is to preserve whole habitats in which a group of mutually dependent species of plants and animals coexist. A network of 261 Biosphere Reserves has now been established by the United Nations Educational, Scientific, and Cultural Organization (UNESCO). They include the Great Barrier Reef off Australia, the Bialowieza National Park in Poland, and several of the U.S. national parks such as Yellowstone and Everglades, which were among the pioneer achievements of the modern conservation movement.

PROTECTED COUNTRY. A herd of bison graze at Yellowstone, which was established in 1872 and is the oldest national park in the world.

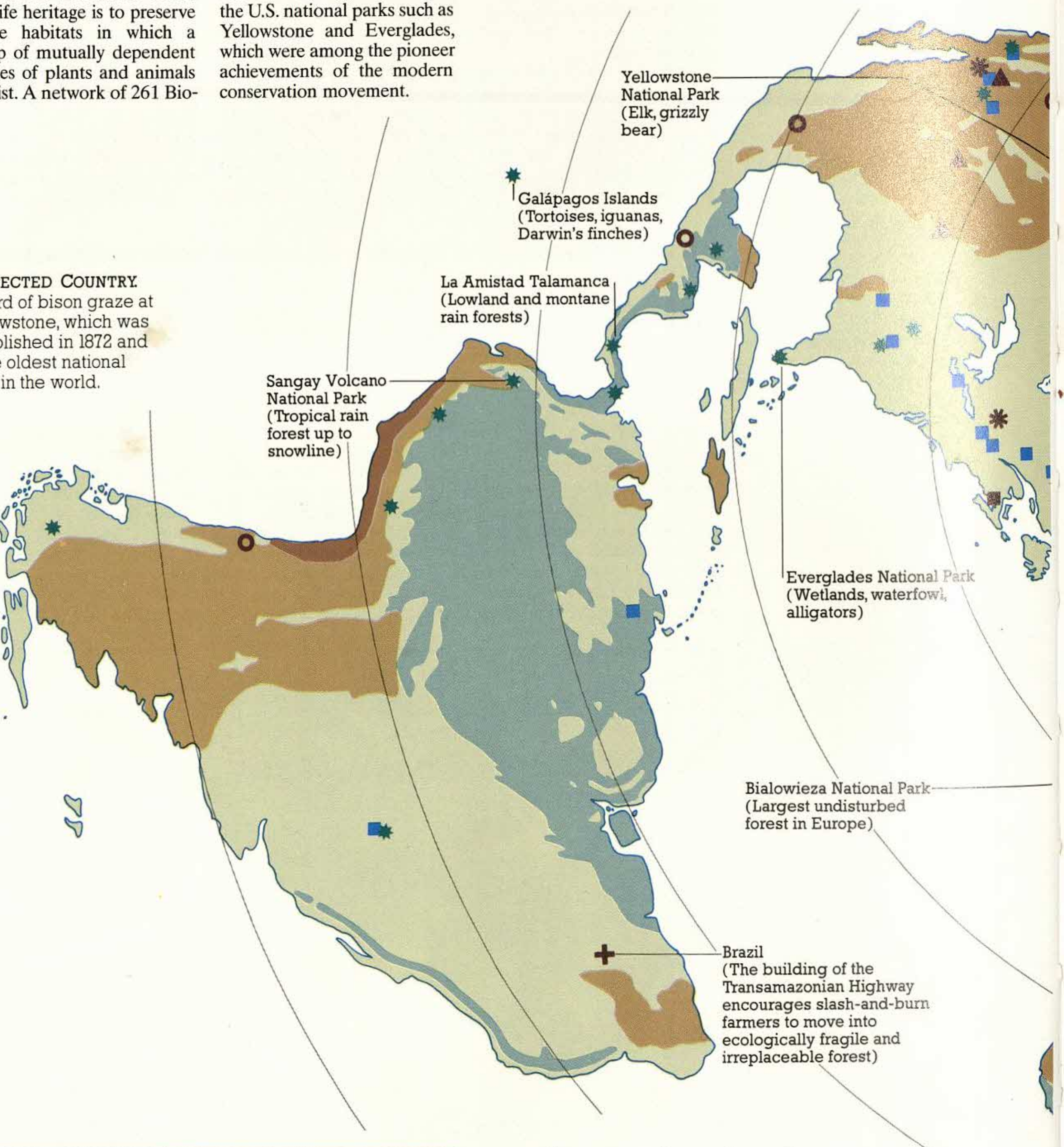
MAINTAINING THE TROPICAL FORESTS

The dense, multilayered canopy of the tropical forests is one of the miracles of life on earth. It covers only about 8 percent of the earth's surface but may harbor more than 40 percent of all species of plants and animals. This massive biological resource not only provides fuel and building materials but is a crucial regulator of the world environment, protecting the topsoil, governing the even flow of rivers, and, on a global scale, helping to maintain a balanced climate.

But the forests are under pressure. As many as 100 acres (40 hectares) of tropical forest are being destroyed every minute — a total of over 83,000 square miles (210,000 sq km) a year. Perhaps twice that area is being seriously degraded. Timber harvesting and cattle ranching play their part in the destruction, but just as significant are the slash-and-burn techniques of the 150 million forest farmers in the world today. Most of the nutrients in the forest are bound up not in the soil but in the living plants. When an area is cleared by burning, most of its worth is dispersed in the wind. Farming on the cleared ground is possible only for one or two seasons before the land is either exhausted or eroded away.

Some places, such as westernmost Amazonia and parts of the Zaire Basin, where the population pressure is not so intense, can be sure to survive at least partly intact. But in west Africa, southeast Asia, and the Himalayan watershed, most of the unique and irreplaceable forest will soon have gone forever.

The only real solutions to the destruction of tropical rain forest lie in the control of population growth; increasing yields on good land; planting alternative sources of timber and fuelwood; and ecological sensitivity in development projects.



Yellowstone National Park (Elk, grizzly bear)
Galápagos Islands (Tortoises, iguanas, Darwin's finches)
La Amistad Talamanca (Lowland and montane rain forests)
Sangay Volcano National Park (Tropical rain forest up to snowline)
Everglades National Park (Wetlands, waterfowl, alligators)
Bialowieza National Park (Largest undisturbed forest in Europe)
Brazil (The building of the Transamazonian Highway encourages slash-and-burn farmers to move into ecologically fragile and irreplaceable forest)

KEEPING THE DESERT AT BAY

About one-third of the earth's surface, fringing the great deserts, is arid, often subject to prolonged drought. Natural ecosystems here are adapted to long dry spells and can take them in their stride. But when such areas are put under pressure by rising populations and the demand for food, their ability to spring back to productiveness after drought is severely reduced. The rains, when they come, rather than soaking into and feeding the land, can wash away the soil, extending the limits of the desert. Every year about 47,000 square miles (122,000 sq km) of agricultural land are made worthless in this way.

This process of "desertification" is probably worsened by the increasing levels of carbon dioxide and other gases in the atmosphere, produced by the burning of fossil fuels, which are likely to raise global temperatures within the next century by up to 8°F (4.5°C).

Unchecked, desertification tends to be self-sustaining. The destruction of vegetation by overuse of the land makes the surface of the soil more reflective and less absorbent. Both evaporation and rainfall decrease, and regrowth becomes less likely.

A problem of such vast proportions is not easily dealt with. A reduction in carbon dioxide emissions from the industrial countries will help. Keeping animals and vehicles off certain areas can reestablish vegetation. The deliberate planting of forest and shrub stands — in the Soviet Union, India, and China — reduces erosion on a local scale.

PINNING THE DUNES. Sand that threatens to encroach on farmland in Tunisia is stabilized with palm seedlings.

ALTERNATIVE ENERGY SOURCES

■ Hydroelectric

▲ Solar

■ Tidal

▨ Ocean Thermal Energy Conversion Experiments

✱ Wind

○ Geothermal

DEFORESTATION AREAS

▨ Tropical Moist Forests

DESERTIFICATION AREAS

▨ Existing desert

▨ Zones in need of protection from desertification

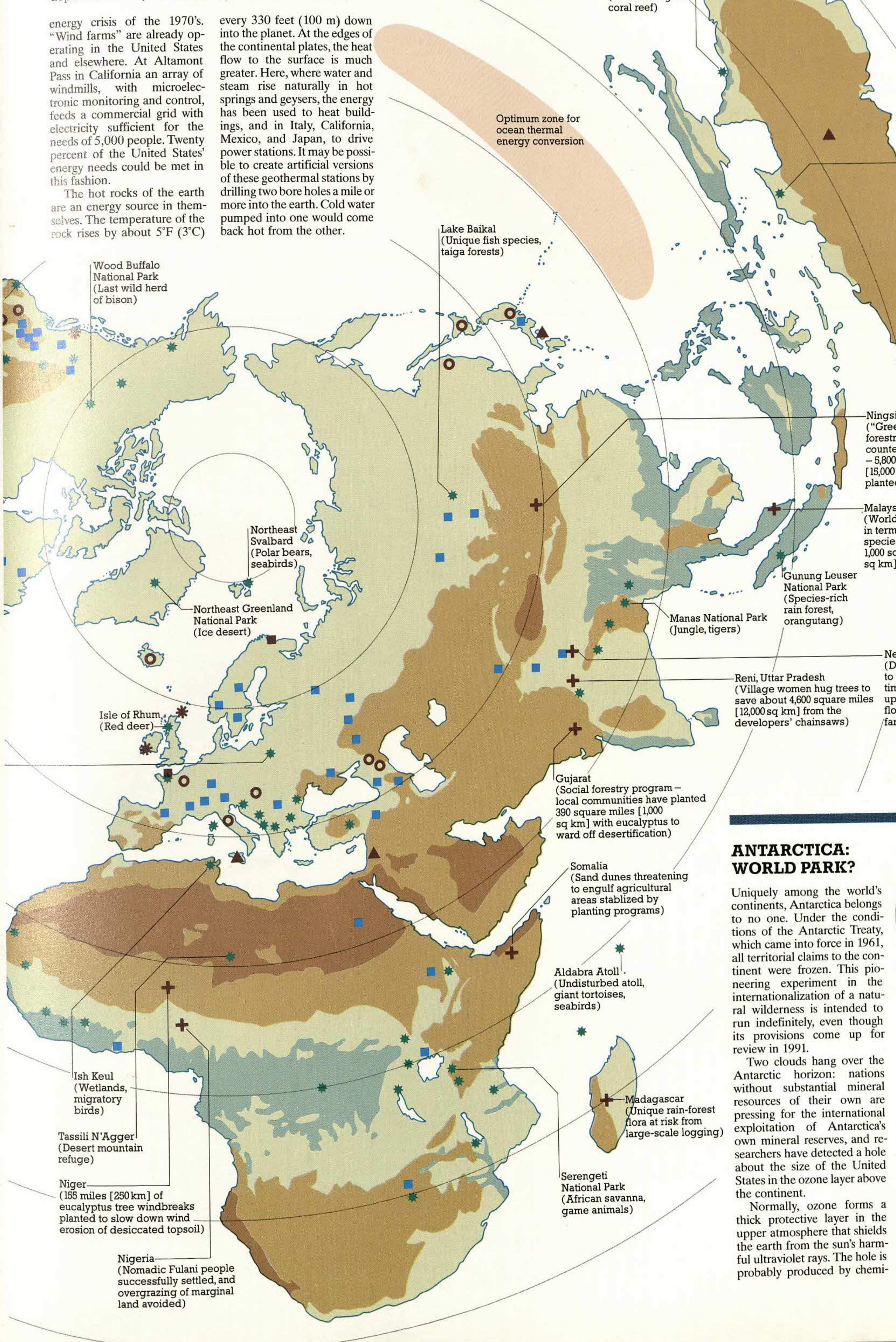
NATURE RESERVES

✱ UNESCO Reserves

WIND FARM. The serried windtowers at Altamont Pass depend on steady winds for the generation of electricity.

energy crisis of the 1970's. "Wind farms" are already operating in the United States and elsewhere. At Altamont Pass in California an array of windmills, with microelectronic monitoring and control, feeds a commercial grid with electricity sufficient for the needs of 5,000 people. Twenty percent of the United States' energy needs could be met in this fashion.

The hot rocks of the earth are an energy source in themselves. The temperature of the rock rises by about 5°F (3°C) every 330 feet (100 m) down into the planet. At the edges of the continental plates, the heat flow to the surface is much greater. Here, where water and steam rise naturally in hot springs and geysers, the energy has been used to heat buildings, and in Italy, California, Mexico, and Japan, to drive power stations. It may be possible to create artificial versions of these geothermal stations by drilling two bore holes a mile or more into the earth. Cold water pumped into one would come back hot from the other.


Lord Howe Island (Seabirds)
Great Barrier Reef (World's largest coral reef)
Optimum zone for ocean thermal energy conversion
Kakadu National Park (Monsoon forest, marsupials, wetlands)
Lake Baikal (Unique fish species, taiga forests)
Wood Buffalo National Park (Last wild herd of bison)
Ningsiahui Province ("Green Great Wall" forestry program to counteract desertification – 5,800 square miles [15,000 sq km] planted each year)
Malaysia (World's richest rain forest, in terms of plant and animal species, felled at rate of 1,000 square miles [2,500 sq km] a year)
Northeast Svalbard (Polar bears, seabirds)
Gunung Leuser National Park (Species-rich rain forest, orangutang)
Northeast Greenland National Park (Ice desert)
Manas National Park (Jungle, tigers)
Nepal (Deforestation has led to shortages of fuel, timber, and food in the uplands, and to increased flooding downstream as far as Bangladesh)
Reni, Uttar Pradesh (Village women hug trees to save about 4,600 square miles [12,000 sq km] from the developers' chainsaws)
Isle of Rhum (Red deer)
Gujarat (Social forestry program – local communities have planted 390 square miles [1,000 sq km] with eucalyptus to ward off desertification)
Somalia (Sand dunes threatening to engulf agricultural areas stablized by planting programs)
Aldabra Atoll (Undisturbed atoll, giant tortoises, seabirds)
Ish Keul (Wetlands, migratory birds)
Tassili N'Agger (Desert mountain refuge)
Madagascar (Unique rain-forest flora at risk from large-scale logging)
Serengeti National Park (African savanna, game animals)
Niger (155 miles [250 km] of eucalyptus tree windbreaks planted to slow down wind erosion of desiccated topsoil)
Nigeria (Nomadic Fulani people successfully settled, and overgrazing of marginal land avoided)

TOWARD A HEALTHY EARTH

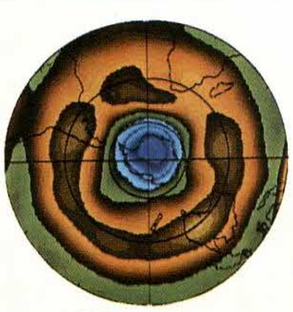
The world, centered here on the North Pole, presents a mixture of ecological problems and initiatives. It is evidence both of the extraordinary pressures under which the planet is now straining and of the resolve of governments and global institutions to work toward their resolution.

ANTARCTICA: WORLD PARK?

Uniquely among the world's continents, Antarctica belongs to no one. Under the conditions of the Antarctic Treaty, which came into force in 1961, all territorial claims to the continent were frozen. This pioneering experiment in the internationalization of a natural wilderness is intended to run indefinitely, even though its provisions come up for review in 1991.

Two clouds hang over the Antarctic horizon: nations without substantial mineral resources of their own are pressing for the international exploitation of Antarctica's own mineral reserves, and researchers have detected a hole about the size of the United States in the ozone layer above the continent.

Normally, ozone forms a thick protective layer in the upper atmosphere that shields the earth from the sun's harmful ultraviolet rays. The hole is probably produced by chemicals called chlorofluorocarbons — used in refrigerators and aerosol cans — that are concentrated by the circulation of the atmosphere above both the poles. The precise mechanics of the Antarctic ozone depletion are still unclear, but the effects could be worrying. The rich marine life in the Antarctic Ocean — particularly the abundant plankton — will undoubtedly suffer from exposure to too much ultraviolet light.



POLAR HOLE. In this computerized satellite image, the blue circle represents the area of greatest ozone depletion.

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192 Atlantic Ocean (1:48,000,000)

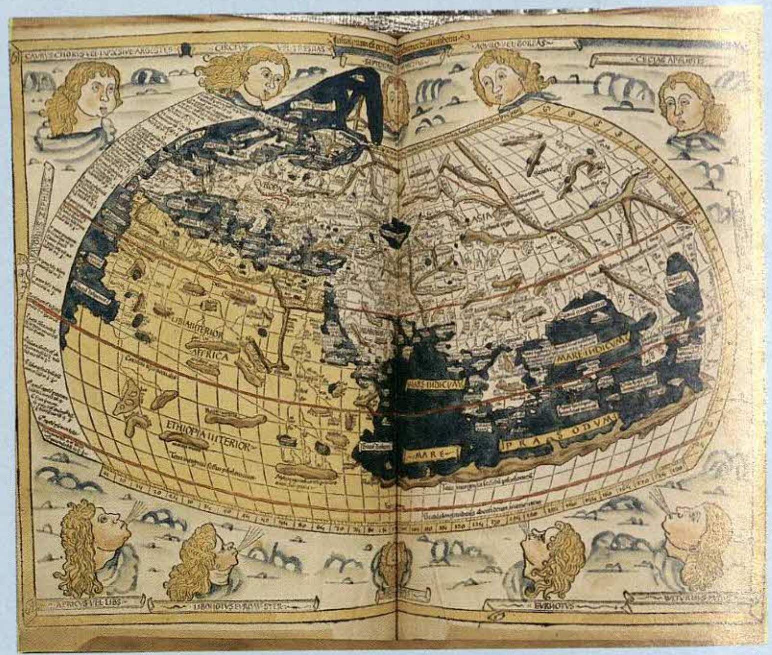
The Challenge to Mapmakers

The globe is the only way to show geographic locations in true relationship to one another, a fact recognized as long ago as the second century A.D. by the Greek scholar Claudius Ptolemy. However, to be useful, a globe would have to be impractically large. The challenge to cartographers is to project the three-dimensional reality of our planet on a flat surface—a process that leads, inevitably, to distortion.

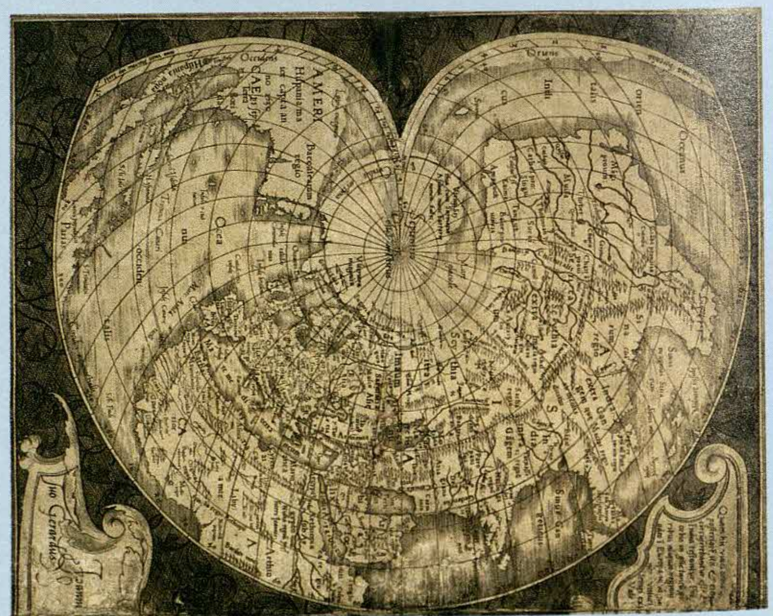
Even though his world was limited largely to the Mediterranean area, Ptolemy knew that the earth was round, and he had a solution to the problem of representing it as flat. His map, as reconstructed below, is recognizable today—even though he exaggerated the Eurasian landmass to occupy half the globe. The perpetuation of this error led Columbus to underestimate the distance to Asia as he set out across the Atlantic, and thus he failed to realize that he had discovered the intervening New World.

Martin Waldseemüller's 1507 map (opposite, top right) peeled the globe like an orange, spread it flat, and called Columbus's discovery America, showing two continents separated from Asia by a sea. The first circumnavigator of the globe, Ferdinand Magellan, named it the Pacific Ocean.

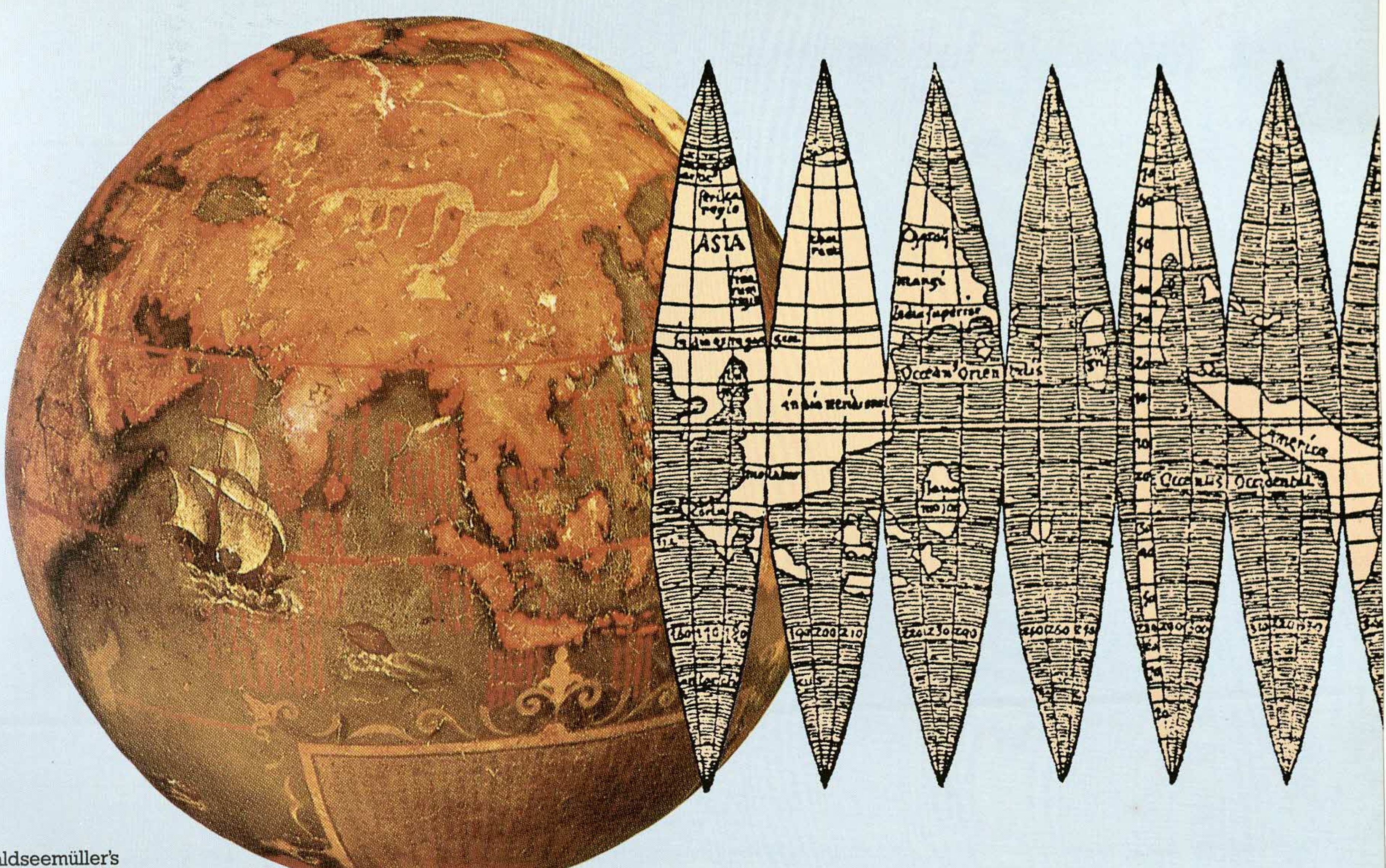
The foremost cartographer of the age of discovery, Gerardus Mercator, produced his first world map in 1538 (bottom), which effectively shows a polar view of a round earth. This map was found pasted inside his copy of a Ptolemy atlas. Mercator eventually arrived at a solution to the puzzle of accurately representing the globe on a flat surface: the cylindrical projection bearing his name, which guided generations of lonely navigators to safe landfalls and is still in use today.



Ptolemy's second-century A.D. map of the world, as reproduced in 1486

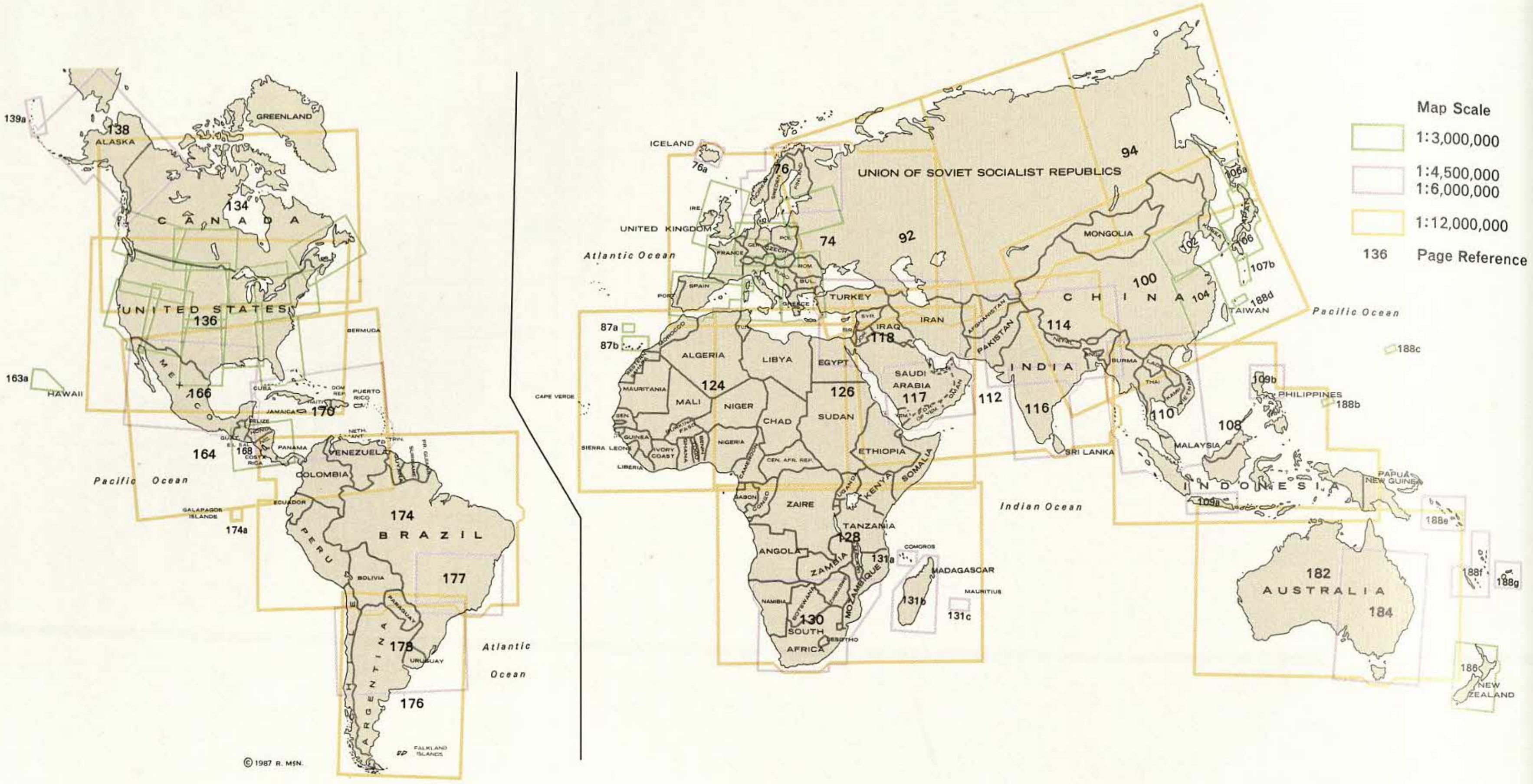


Northern Hemisphere of Mercator's first world map, 1538



Waldseemüller's map of 1507, as if peeled off a globe—this globe being the 1623 creation of two Jesuits, probably made for the emperor of China. Below, a satellite view of earth.

World Index Map



Legend to Maps

Inhabited Localities

The symbol represents the number of inhabitants within the locality

1:1,000,000	• 0—10,000	1:12,000,000	· 0—50,000
1:1,500,000	○ 10,000—25,000		⊙ 50,000—100,000
1:3,000,000	⊙ 25,000—100,000		▣ 100,000—250,000
1:4,500,000	▣ 100,000—250,000		▣ 250,000—1,000,000
1:6,000,000	▣ 250,000—1,000,000		■ >1,000,000
	■ >1,000,000		

▨ Urban Area (area of continuous industrial, commercial, and residential development)

The size of type indicates the relative economic and political importance of the locality

Ecommoy	Lisieux	**Rouen**
Trouville	**Orléans**	**PARIS**

Hollywood ▫ *Westminster* Section of a City, Neighborhood

Bi'r Safājah ° Oasis

Capitals of Political Units

BUDAPEST Independent Nation

Cayenne Dependency (Colony, protectorate, etc.)

GALAPAGOS (Ecuador) Administering Country

Villarica State, Province, County, Oblast, etc.

Alternate Names

Basel **Bâle**	**MOSKVA** **MOSCOW**	English or second official language names are shown in reduced size lettering
Ventura **(San Buenaventura)**	**Volgograd** **(Stalingrad)**	Historical or other alternates in the local language are shown in parentheses

Political Boundaries

International (First-order political unit)

1:1,000,000 1:1,500,000 1:3,000,000 1:4,500,000 1:6,000,000	1:12,000,000	
—·—·—·—	—·—·—·—	Demarcated, Undemarcated, and Administrative
▬ ▬ ▬ ▬	– – – –	Indefinite or Undefined
▬·▬·▬·▬	—·—·—·—	Disputed de facto
—··—··—··	—··—··—··	Disputed de jure
– – – – – –	– – – – – –	Demarcation Line

Internal

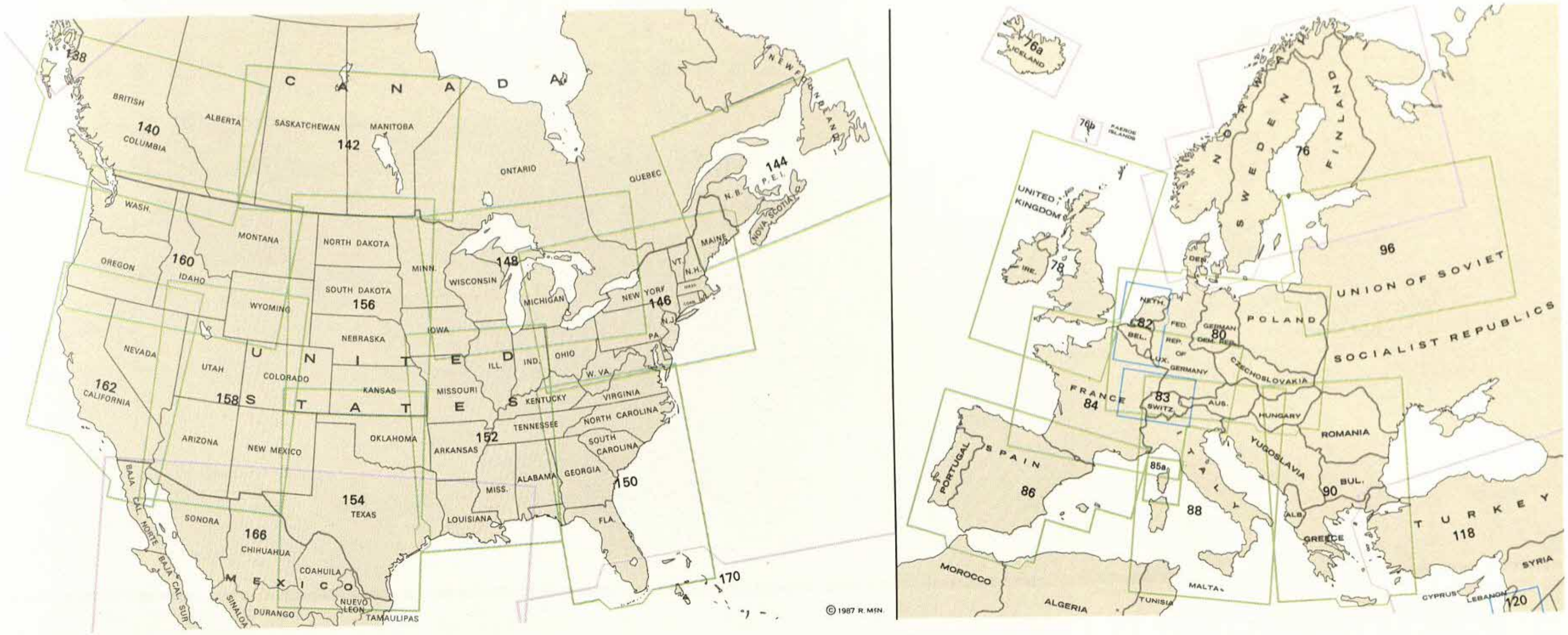
GUAIRA		State, Province, etc. (Second-order political unit)
WESTCHESTER		County, Oblast, etc. (Third-order political unit)

ANDALUCIA Historical Region (No boundaries indicated)

Miscellaneous Cultural Features

PARQUE NACIONAL CANAIMA ▲	National or State Park or Monument	AMISTAD DAM	Dam
		<>	Lock
BLACKFOOT IND. RES.	Indian Reservation	STEINHAUSEN	Church, Monastery
FORT DIX ■	Military Installation	UXMAL	Ruins
		WINDSOR CASTLE	Castle
▲ TANGLEWOOD	Point of Interest (Battlefield, cave, historical site, etc.)		

Regional Index Maps



🟦	1:1,000,000 1:1,500,000
🟩	1:3,000,000
▭	1:4,500,000 1:6,000,000
136	Page Reference

Transportation

1:12,000,000	1:3,000,000 1:4,500,000 1:6,000,000	1:1,000,000 1:1,500,000	
—	—	—	Primary Road
	—	—	Secondary Road
		—	Tertiary Road
	- - -	- - -	Minor Road, Trail
┼┼┼	┼┼┼	┼┼┼	Primary Railway
		┼┼┼	Secondary Railway

═	Bridge	✈	Airport
—)- - -(—	Tunnel	Canal du Midi	Navigable Canal
TO CALAIS	Ferry	- - -	Intracoastal Waterway

Metric-English Equivalents

Elevation tints not shown on 1:12,000,000 scale maps

Meters	Feet
2000	6562
1000	3281
500	1640
200	656
Land Below Sea Level 0	0
0	0
200	656
1000	3281
3000	9843

Hydrographic Features

	Shoreline
	Undefined or Fluctuating Shoreline
Amur	River, Stream
	Intermittent Stream
	Rapids, Falls
	Irrigation or Drainage Canal
	Reef
	Aqueduct
The Everglades	Swamp
SEWARD GLACIER	Glacier
L. Victoria	Lake, Reservoir
Tuz Golu	Salt Lake
	Intermittent Lake, Reservoir
	Dry Lake Bed
(395)	Lake Surface Elevation
764 ▿	Depth of Water

Topographic Features

Mount Rainier △ 4392	Elevation Above Sea Level
76 ▿	Elevation Below Sea Level
Mount Cook ▲ 3764	Highest Elevation in Country
Khyber Pass ⌯ 1067	Mountain Pass
133 ▾	Lowest Elevation in Country
(106)	Elevation of City
	Lava
	Sand Area
	Salt Flat
ANDES KUNLUNSHANMAI	Mountain Range, Plateau, Valley, etc.
BAFFIN ISLAND NUNIVAK ISLAND	Island
POLUOSTROV KAMČATKA CABO DE HORNOS	Peninsula, Cape, Point, etc.

Elevations and depths are given in meters

Highest Elevation and Lowest Elevation of a continent are underlined

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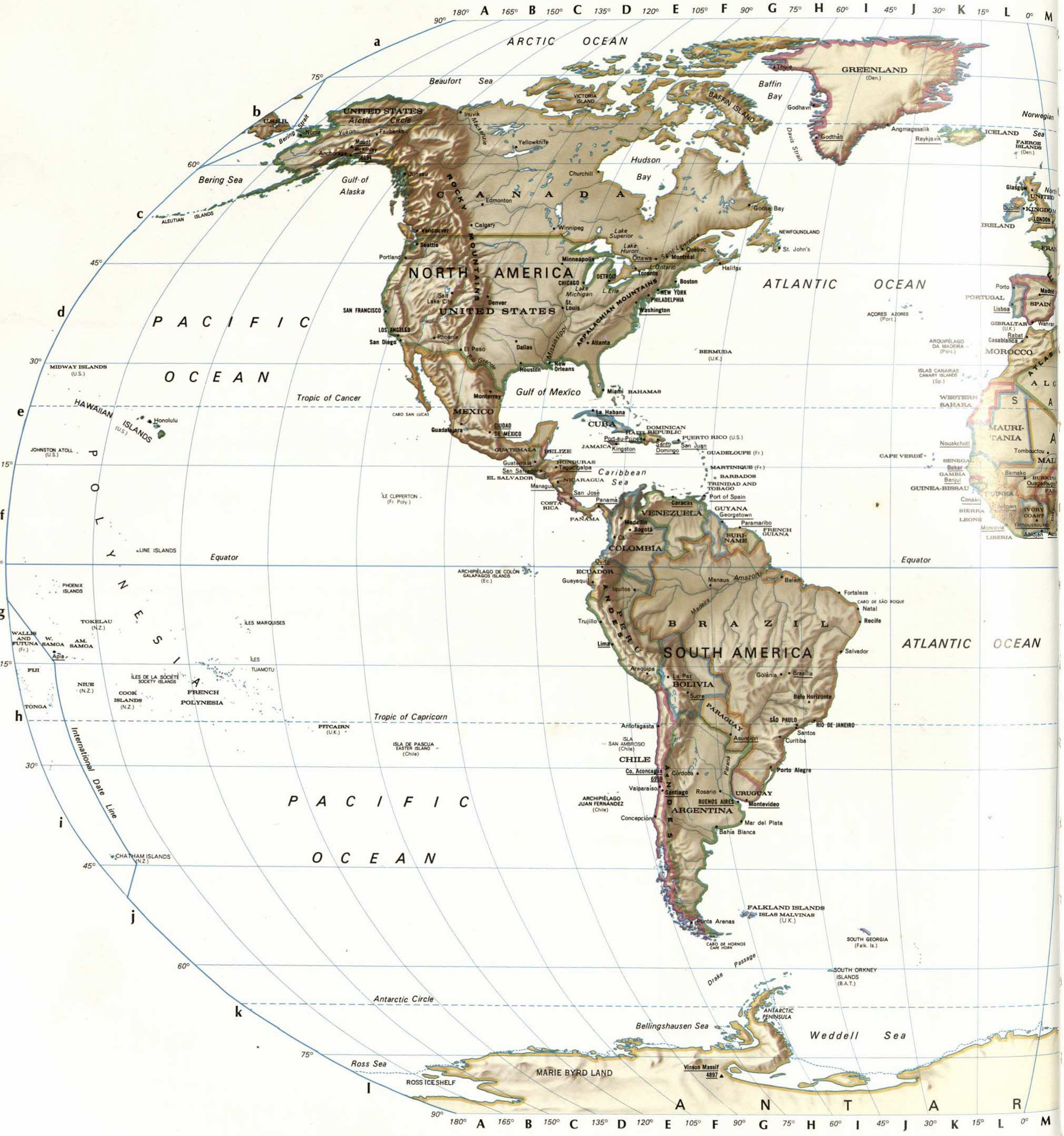
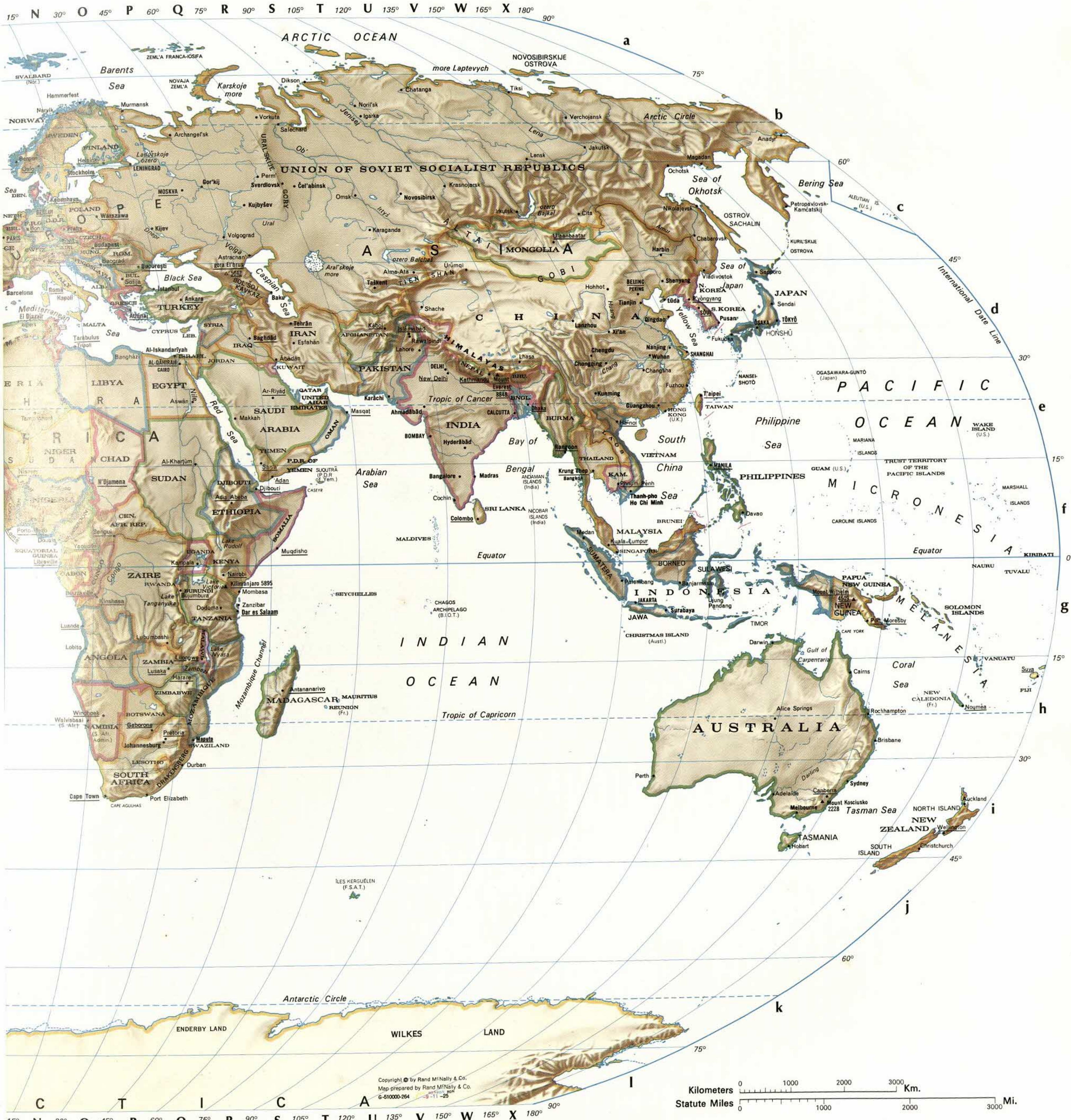
World · Political





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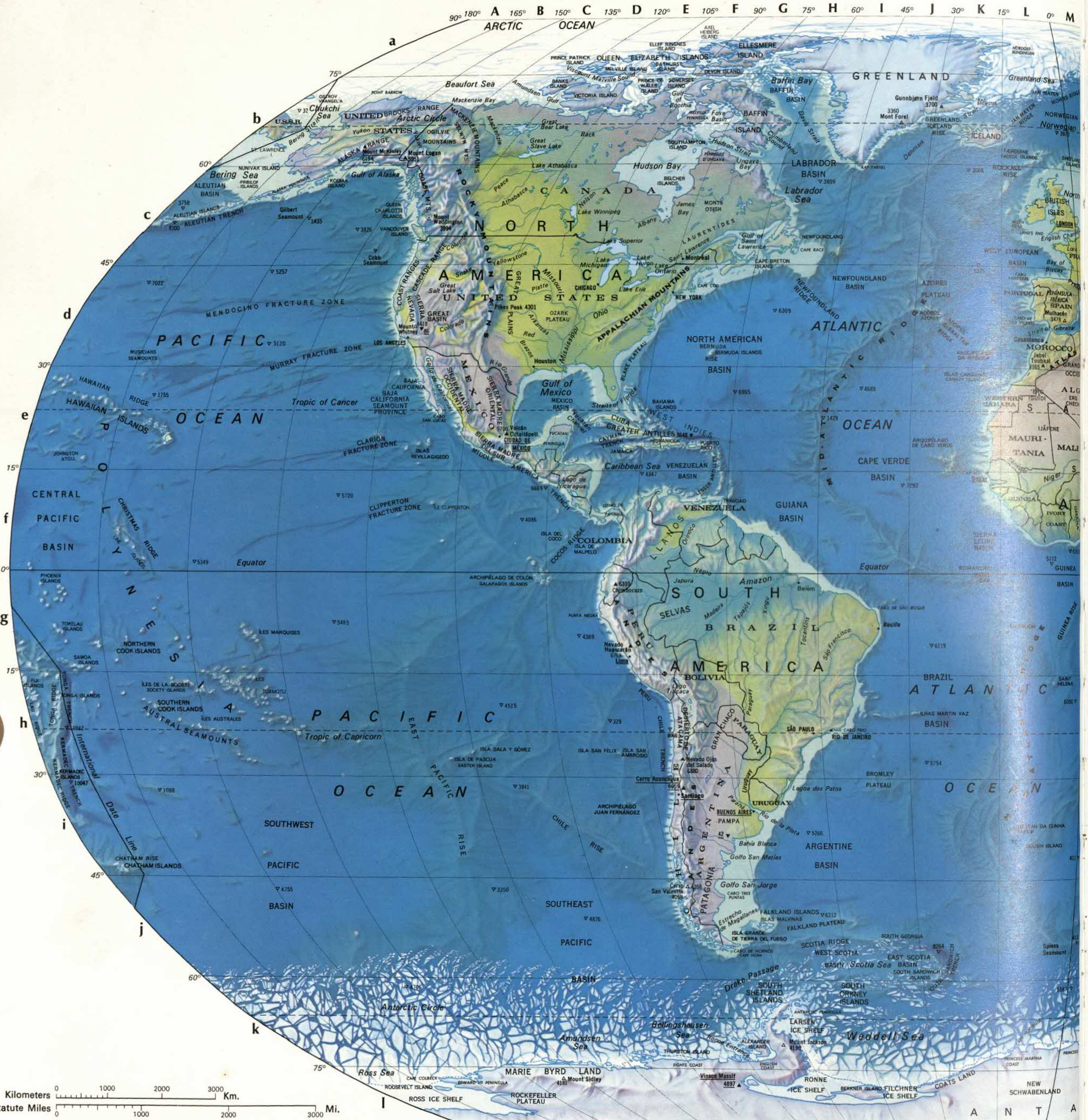
One centimeter represents 780 kilometers.
One inch represents approximately 1230 miles.
Robinson Projection

World · Physical



Kilometers 0 1000 2000 3000 Km.

Statute Miles 0 1000 2000 3000 Mi.

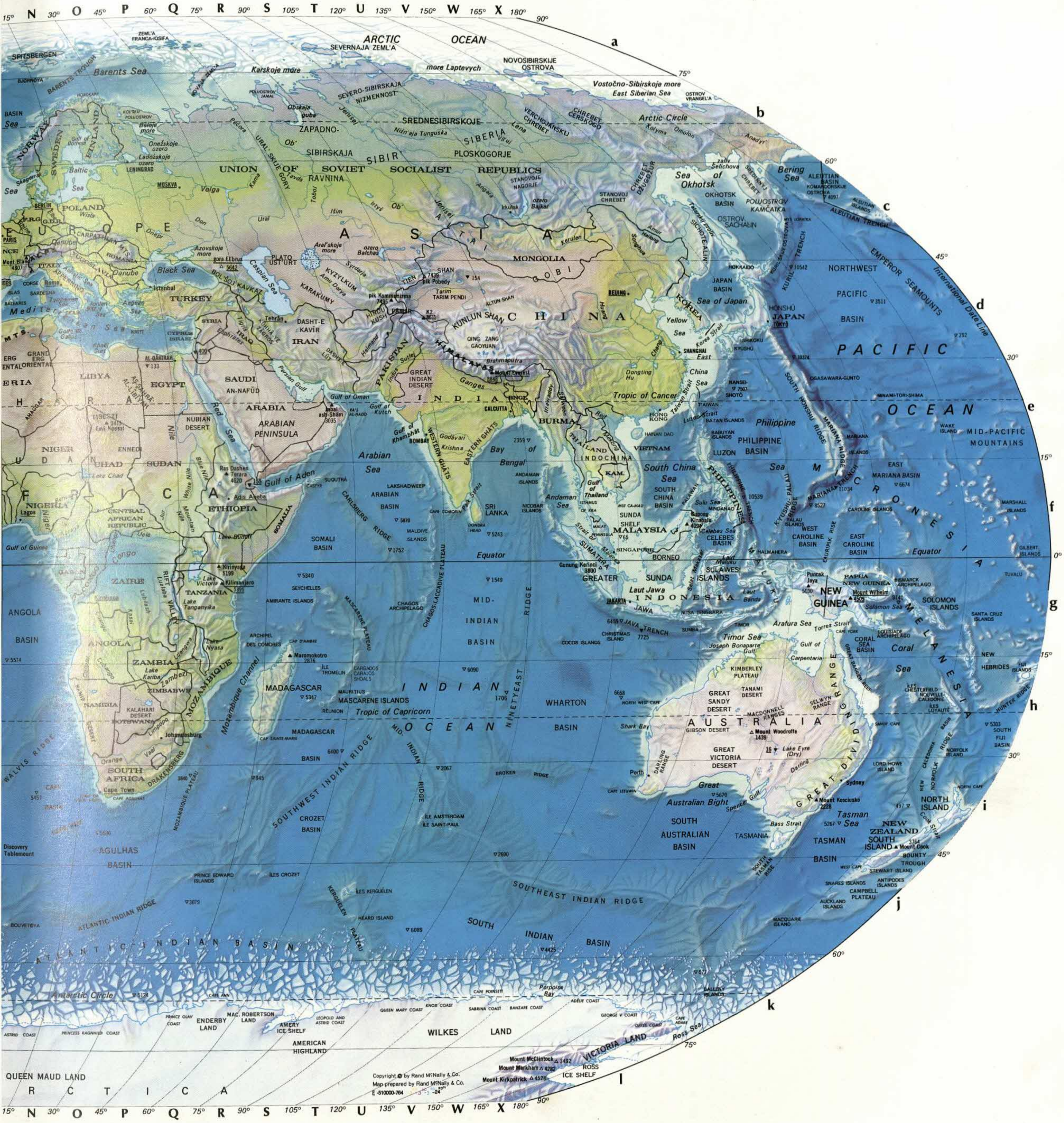
One centimeter represents 780 kilometers.
One inch represents approximately 1230 miles.

Robinson Projection

The legend below also relates to the maps on pages 189, 190-191, and 192.

Land Features

- Ice and Snow
- High Barren Area
- Tundra and Alpine
- Needleleaf Trees
- Broadleaf Trees
- Tropical Rainforest



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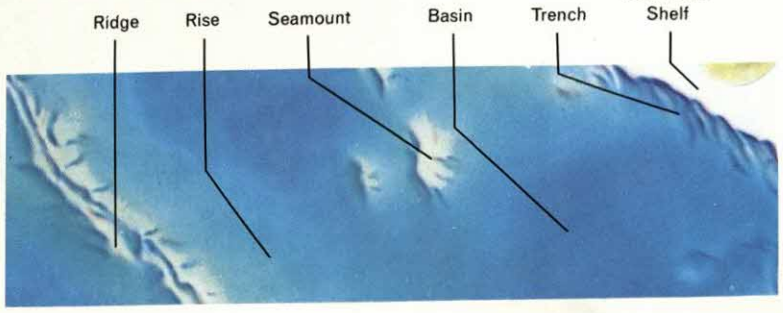
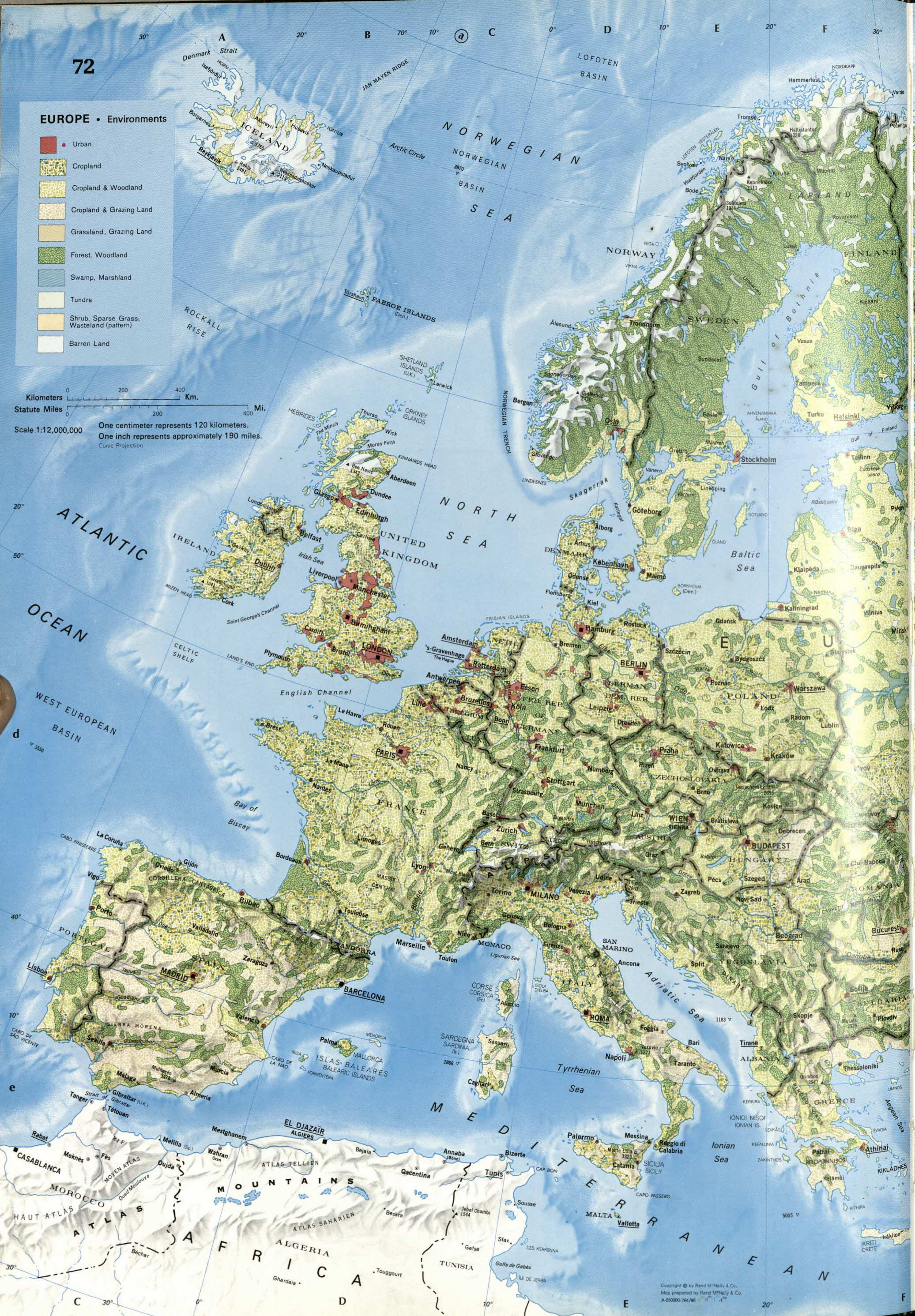
Submarine Features



Grassland

Dry Scrub

Desert



EUROPE • Environments

🟥 ●	Urban
▨	Cropland
▨	Cropland & Woodland
▨	Cropland & Grazing Land
▨	Grassland, Grazing Land
🟩	Forest, Woodland
▨	Swamp, Marshland
▨	Tundra
▨	Shrub, Sparse Grass; Wasteland (pattern)
▨	Barren Land

Kilometers 0 200 400 Km.
Statute Miles 0 200 400 Mi.

Scale 1:12,000,000
One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Conic Projection

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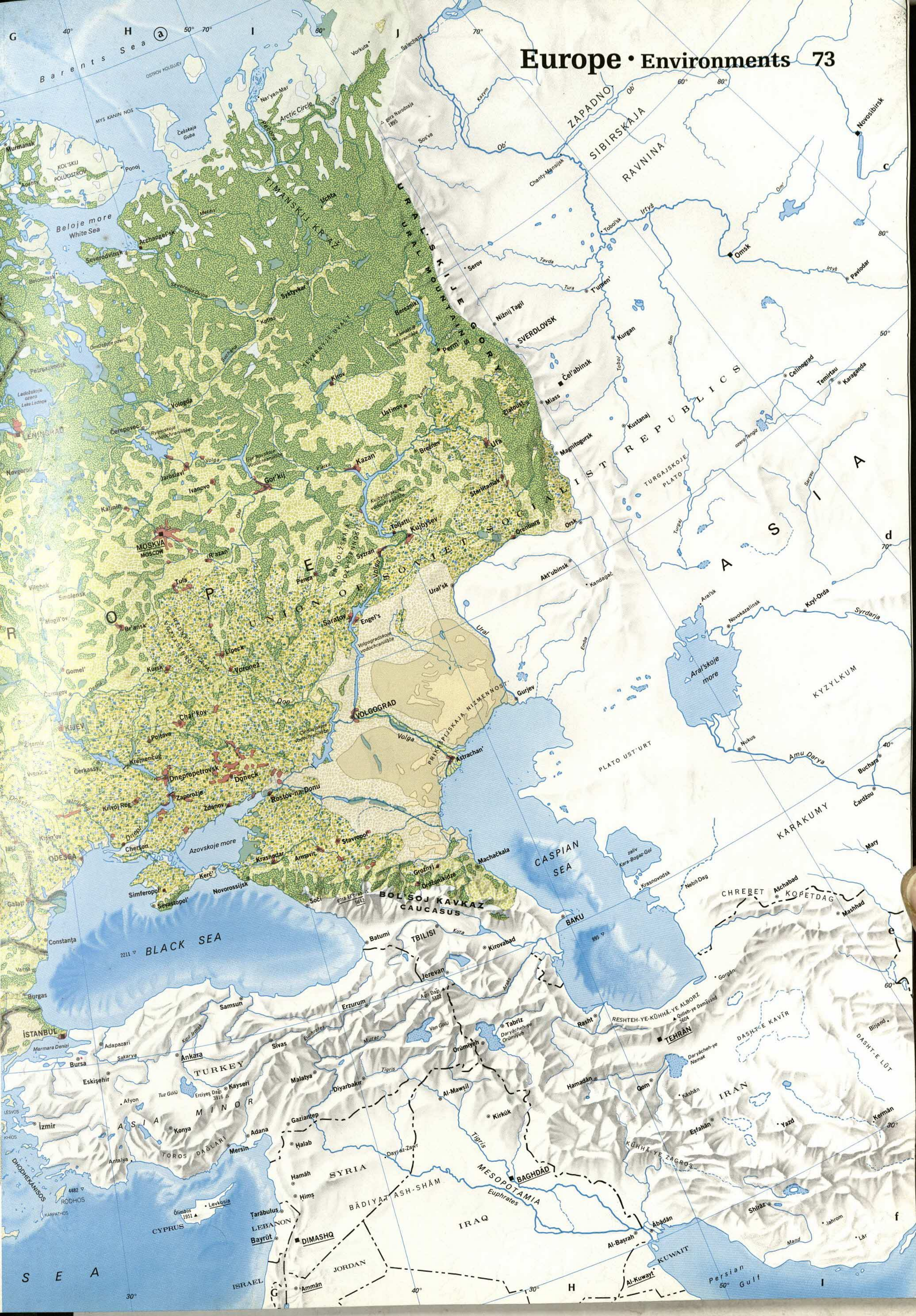
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OSTROV KOLGUJEV
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Vorkuta
Salechard
Arctic Circle
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gora Narodnaja 1895
Murmansk
KOL'SKIJ POLUOSTROV
Ponoj
Beloje more
White Sea
Archangel'sk
Severodvinsk
Belomorsk
Mezen'
TIMANSKIJ KRAJ
Uchta
URAL'SKIJE GORY
URAL MOUNTAINS
Sos'va
Kazym
Ob'
ZAPADNO SIBIRSKAJA RAVNINA
Chanty-Mansijsk
Novosibirsk
Om'
Irtyš
Tobol'sk
Omsk
Pavlodar
Tavda
Tura
Serov
T'umen'
Nižnij Tagil
SVERDLOVSK
Kurgan
Tobol
Išim
Čel'abinsk
Miass
Zlatoust
Kustanaj
Magnitogorsk
Celinograd
Temirtau
Karaganda
ozero Tengiz
TURGAJSKOJE PLATO
Turgaj
Sarysu
Syktyvkar
Severnaja Dvina
Kotlas
Berezniki
Perm'
Kamskoje vodochranilišče
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Gor'kij
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Ustinov
Brežnev
Ufa
Kazan'
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Oka
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Ždanov
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Južnyj Bug
Dnepr
Kišin'ov
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Cherson
Azovskoje more
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Astrachan'
Stavropol'
Armavir
Krasnodar
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Novorossijsk
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Novokazalinsk
Kzyl-Orda
Syrdarja
Aral'skoje more
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Nukus
Amu Darya
Buchara
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Aš̌chabad
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Orūmīyeh
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Kermān
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Ābādān
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KUWAIT
Al-Kuwayt
Persian Gulf
Samsun
Erzurum
Van Gölü
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Adana
Gaziantep
TOROS DAĞLARI
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Al-Mawşil
Kirkūk
Dayr az-Zawr
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Ḥimş
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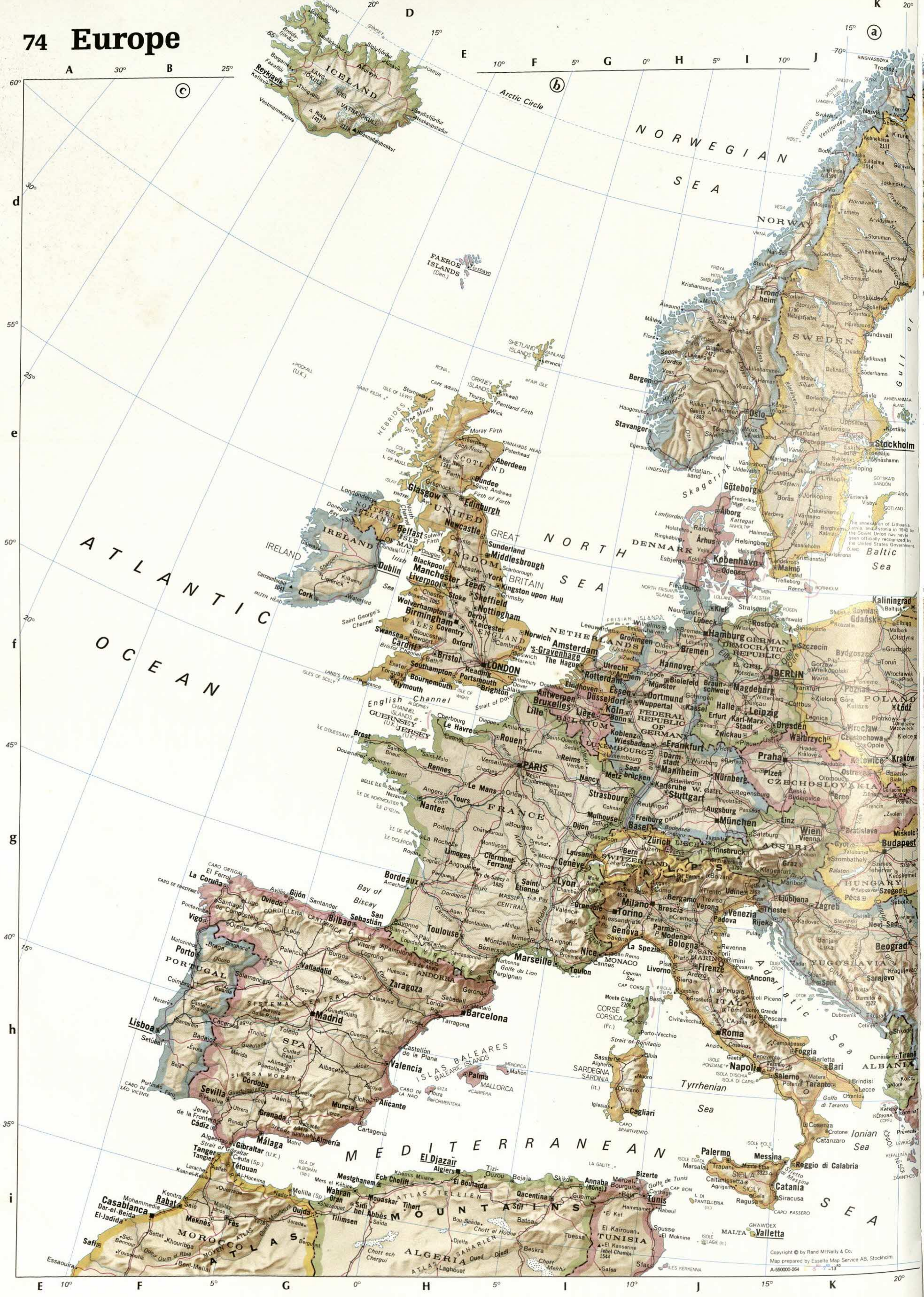
ATLANTIC OCEAN
NORWEGIAN SEA
NORTH SEA
Arctic Circle
ICELAND
Reykjavík
Akureyri
VATNAJÖKULL
FAEROE ISLANDS (Den.)
Tórshavn
SHETLAND ISLANDS
Lerwick
ORKNEY ISLANDS
Kirkwall
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Kiruna
Kattegat
DENMARK
København
Århus
Ålborg
Odense
Baltic Sea
Gulf of
The annexation of Lithuania, Latvia, and Estonia in 1940 by the Soviet Union has not been officially recognized by the United States Government.
Kaliningrad
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POLAND
Łódź
Kraków
Wrocław
Szczecin
Poznań
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Leipzig
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Strait of Gibraltar
Ceuta (Sp.)
Melilla (Sp.)
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Genova
Venezia
Bologna
Firenze
Napoli
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Taranto
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Brindisi
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CORSE CORSICA (Fr.)
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Tyrrhenian Sea
Adriatic Sea
Ionian Sea
Ligurian Sea
MALTA
Valletta
YUGOSLAVIA
Beograd
Zagreb
Ljubljana
Sarajevo
Rijeka
Split
Novi Sad
ALBANIA
Tiranë
MEDITERRANEAN SEA
MOROCCO
Rabat
Casablanca
Tanger
Fès
Meknès
Oujda
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Algiers
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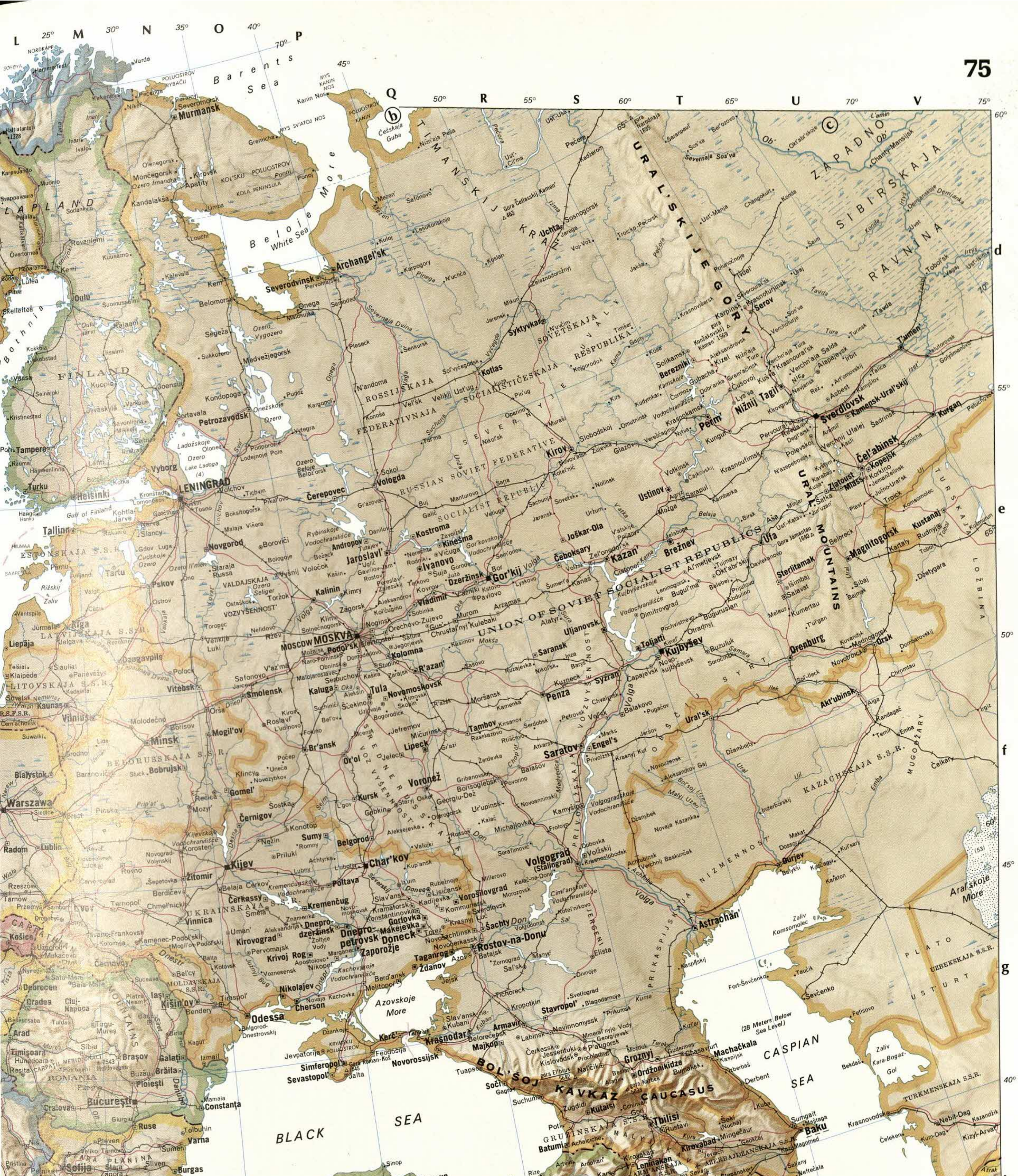


Kilometers 0 200 400 600 Km.

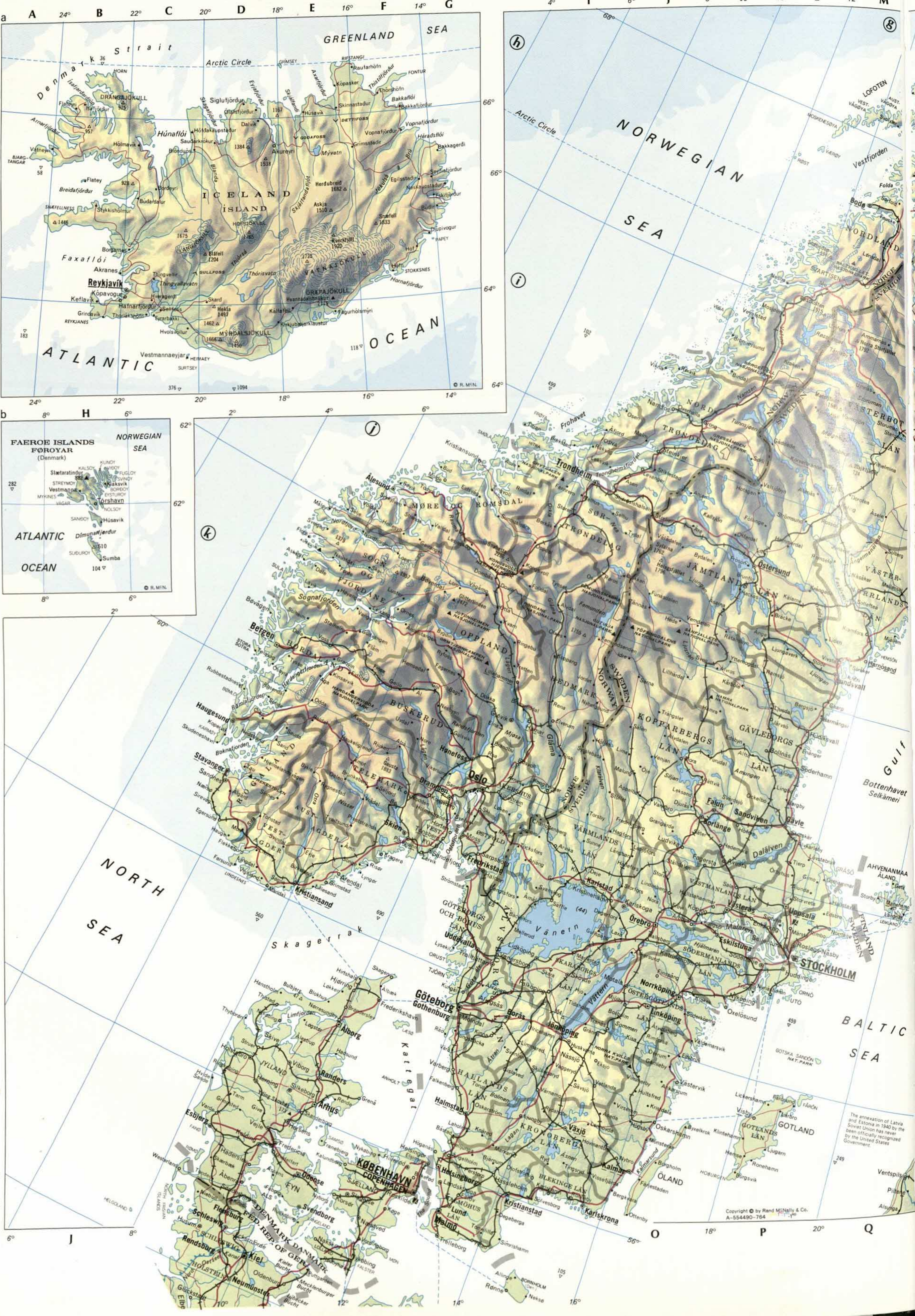
Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.

Miller Oblated Stereographic Projection

Northern Europe



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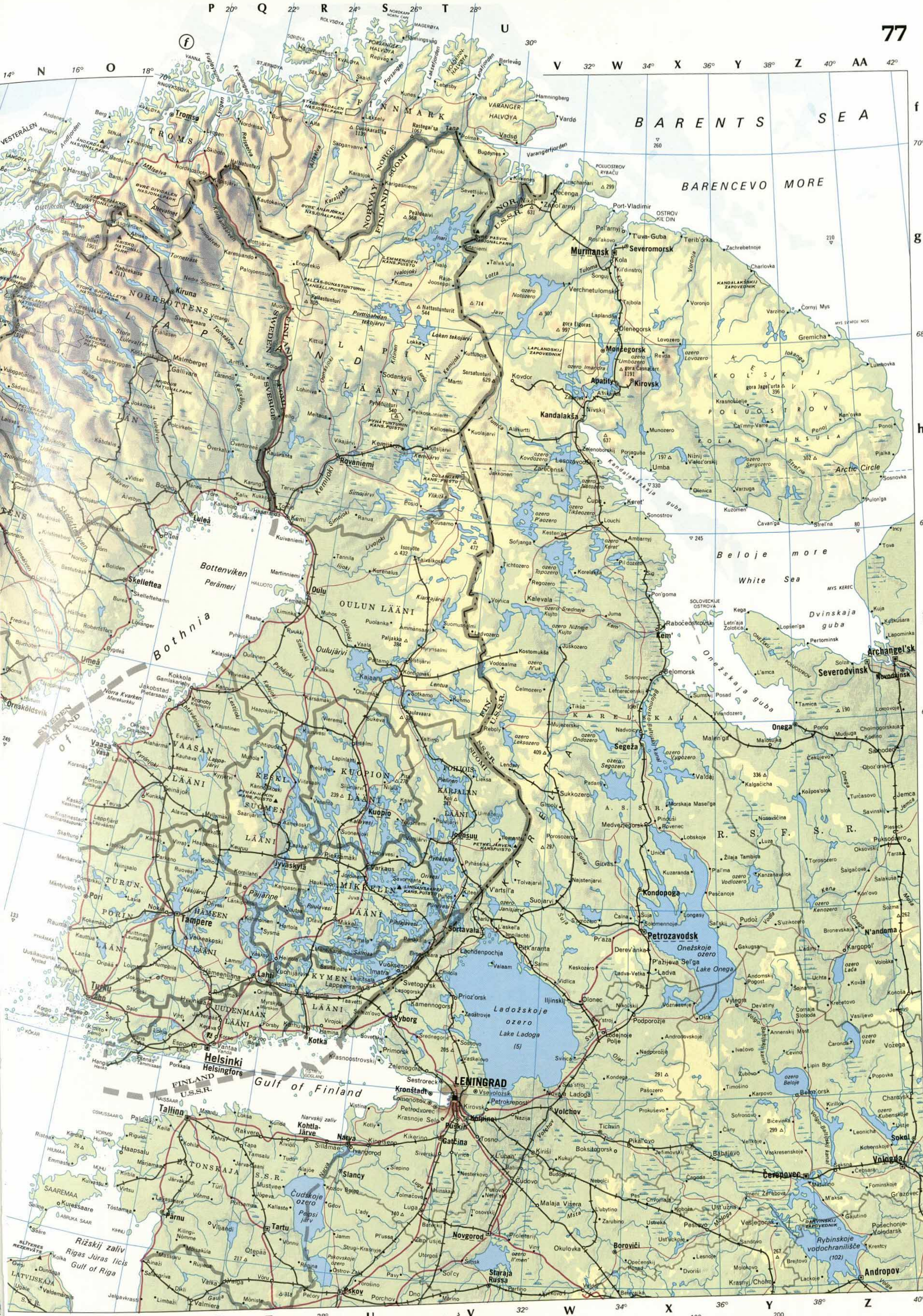
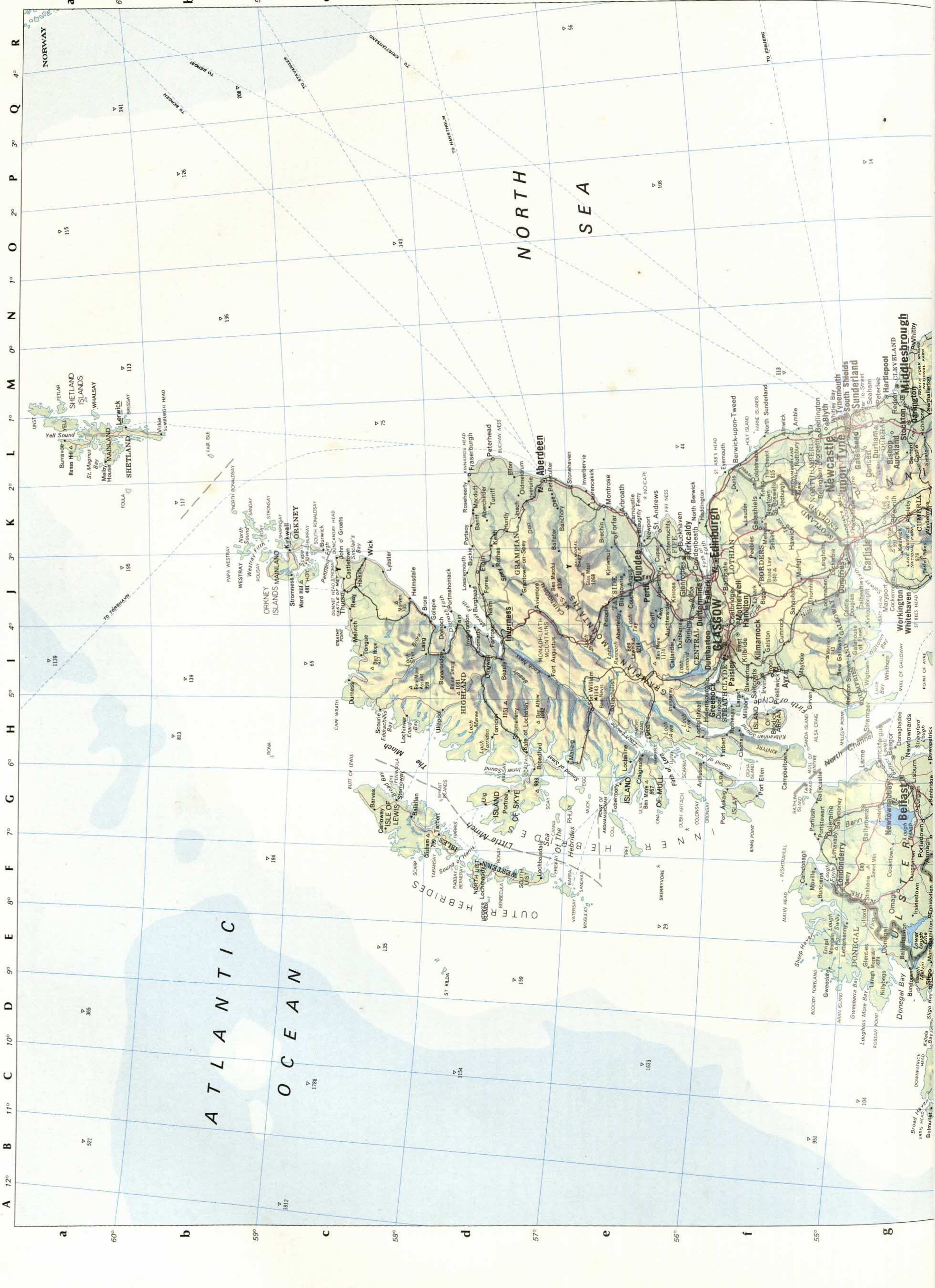


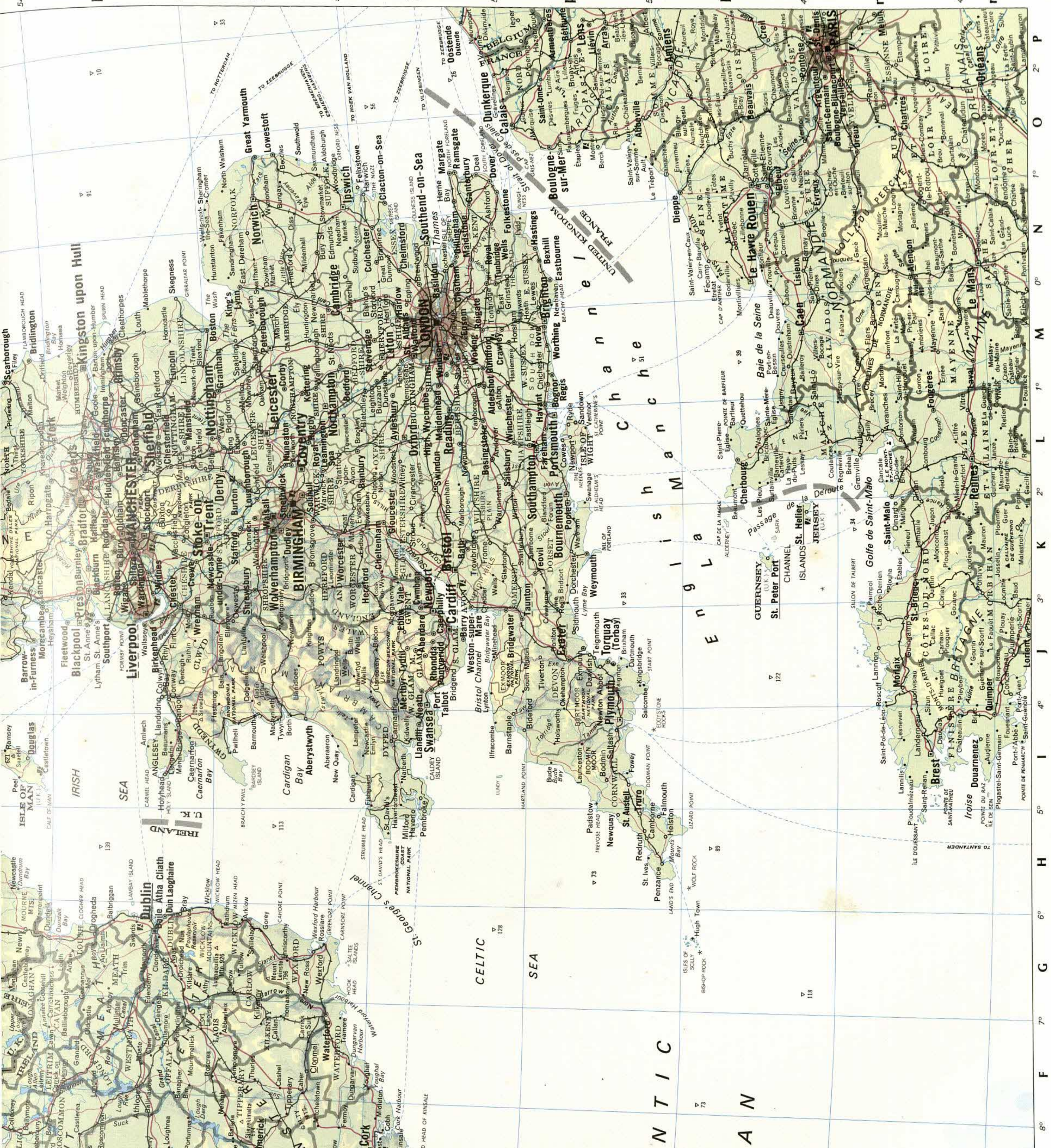
Scale 1:4,500,000

One centimeter represents 45 kilometers.
One inch represents approximately 71 miles.

Lambert Conformal Conic Projection

British Isles





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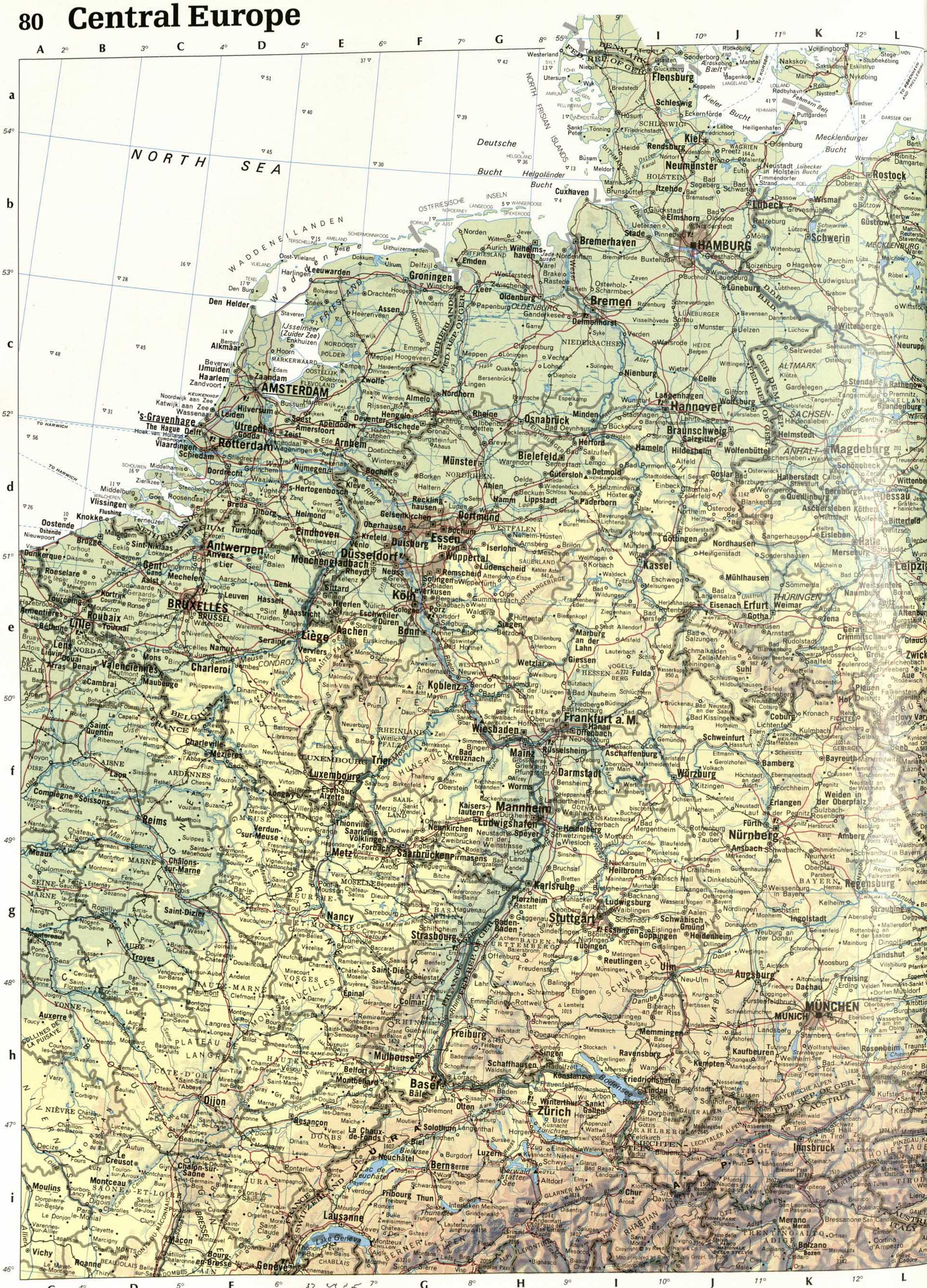
Kilometers 0 50 100 150 Km.
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

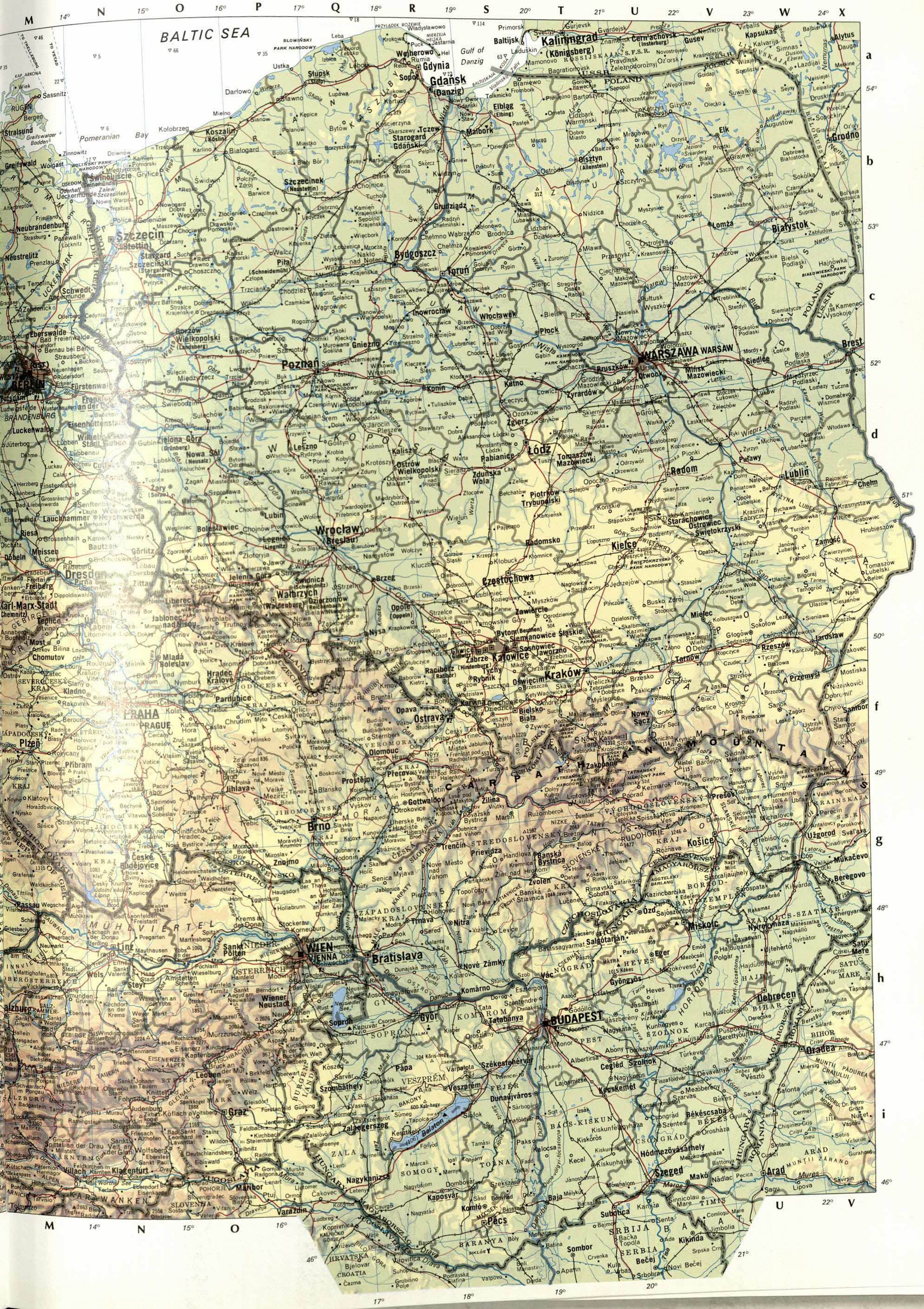
One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Conic Projection, Two Standard Parallels

Central Europe

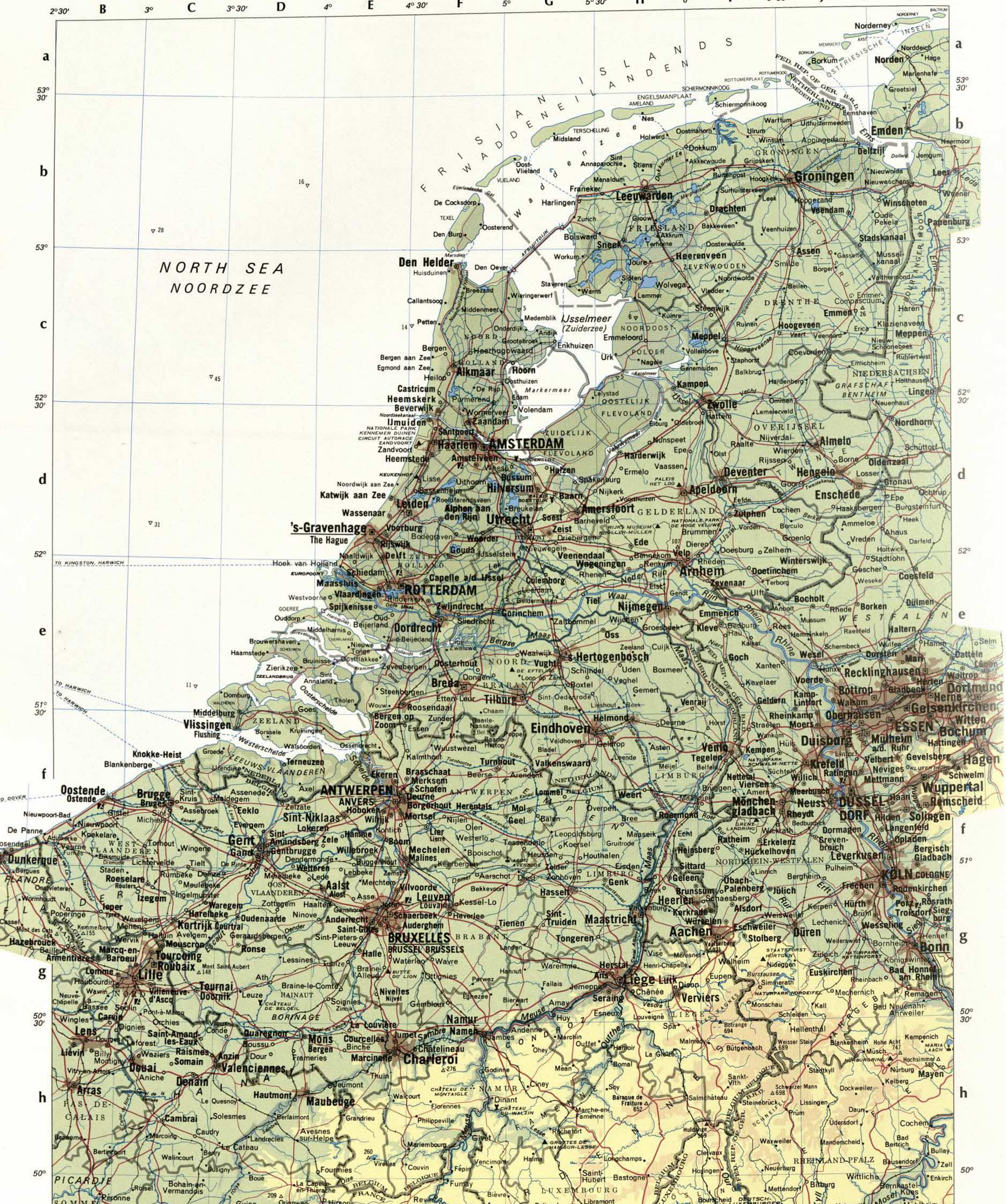


Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Conic Projection, Two Standard Parallels.


M
14°
N
15°
O
16°
P
17°
Q
18°
R
19°
S
20°
T
21°
U
22°
V
23°
W
24°
X
a
54°
b
53°
c
52°
d
51°
e
50°
f
49°
g
48°
h
47°
i
46°
BALTIC SEA
Pomeranian Bay
Gulf of Danzig
SŁOWIŃSKI PARK NARODOWY
PRZYLĄDEK ROZEWIE
MIERZEJA HELSKA
Rügen
Sassnitz
Stralsund
Greifswald
Neubrandenburg
Neustrelitz
Berlin
Potsdam
Frankfurt an der Oder
Eisenhüttenstadt
Cottbus
Dresden
Karl-Marx-Stadt
Freiberg
Riesa
Meissen
BRANDENBURG
Kaliningrad (Königsberg)
Baltijsk
Gusev
Sovetsk
Černjachovsk (Insterburg)
Prim orsk
Gvardejsk
Gurjevsk
Laduškin
Mamonovo
Bagrationovsk
Pravdinsk
Železnodorožnyj
Ozersk
ROSSIJSKAJA S.F.S.R.
U.S.S.R.
POLAND
POLSKA
LIETUVOS S.S.R.
LITHUANIA
Kapsukas
Alytus
Vilkaviškis
Lazdijai
Druskininkai
Grodno
BELORUSSKAJA S.S.R.
Brest
Kamenec
Vysokoje
Gdańsk (Danzig)
Gdynia
Sopot
Wejherowo
Hel
Puck
Władysławowo
Łeba
Słupsk (Stolp)
Ustka
Darłowo
Koszalin (Köslin)
Kołobrzeg
Białogard
Szczecinek (Neustettin)
Świnoujście
Szczecin (Stettin)
Stargard Szczeciński
Police
Goleniów
Gryfice
Pyrzyce
Myślibórz
Gorzów Wielkopolski (Landsberg)
Kostrzyn
Słubice
Zielona Góra (Grünberg)
Nowa Sól
Żary (Sorau)
Żagań
Głogów
Legnica (Liegnitz)
Lubin
Bolesławiec
Jelenia Góra
Wałbrzych (Waldenburg)
Świdnica
Dzierżoniów
Wrocław (Breslau)
Oleśnica
Opole (Oppeln)
Nysa
Brzeg
Racibórz (Ratibor)
Rybnik
Gliwice
Zabrze (Hindenburg)
Bytom (Beuthen)
Katowice
Chorzów
Sosnowiec
Tychy
Oświęcim
Bielsko-Biała
Kraków
Tarnów
Rzeszów
Przemyśl
Krosno
Nowy Sącz
Zakopane
Częstochowa
Kielce
Radom
Lublin
Zamość
Chełm
Biała Podlaska
Siedlce
Łódź
Piotrków Trybunalski
Tomaszów Mazowiecki
Skierniewice
Warszawa WARSAW
Otwock
Pruszków
Żyrardów
Płock
Włocławek
Toruń
Bydgoszcz
Inowrocław
Gniezno
Poznań
Leszno
Kalisz
Ostrów Wielkopolski
Konin
Piła (Schneidemühl)
Grudziądz
Chełmno
Kwidzyn
Malbork
Elbląg (Elbing)
Tczew
Starogard Gdański
Chojnice
Olsztyn (Allenstein)
Ełk
Suwałki
Augustów
Łomża
Białystok
Bielsk Podlaski
Hajnówka
Ostrołęka
Ciechanów
Mława
Pułtusk
Mińsk Mazowiecki
Puławy
Dęblin
Stalowa Wola
Mielec
Jarosław
Sanok
POMORZE
KASZUBY
KUJAWY
MAZURY
WIELKOPOLSKA
MAŁOPOLSKA
GALICJA
SLĄSK
GÓRY ŚWIĘTOKRZYSKIE
WYŻYNA LUBELSKA
ROZTOCZE
BIAŁOWIESKI PARK NARODOWY
KAMPINOSKI PARK NARODOWY
Wisła
Odra
Warta
Noteć
Narew
Bug
Pilica
San
Wieprz
Neisse
CARPATHIAN MOUNTAINS
ČESKOSLOVENSKO
CZECHOSLOVAKIA
PRAHA PRAGUE
Kladno
Plzeň
Příbram
Tábor
České Budějovice
Jihlava
Brno
Znojmo
Olomouc
Prostějov
Přerov
Gottwaldov
Ostrava
Opava
Karviná
Havířov
Frýdek-Místek
Hradec Králové
Pardubice
Liberec
Jablonec nad Nisou
Ústí nad Labem
Teplice
Most
Chomutov
Mladá Boleslav
Kolín
Kutná Hora
SEVEROČESKÝ KRAJ
STŘEDOČESKÝ KRAJ
ZÁPADOČESKÝ KRAJ
JIHOČESKÝ KRAJ
VÝCHODOČESKÝ KRAJ
JIHOMORAVSKÝ KRAJ
SEVEROMORAVSKÝ KRAJ
ZÁPADOSLOVENSKÝ KRAJ
STREDOSLOVENSKÝ KRAJ
VÝCHODOSLOVENSKÝ KRAJ
MORAVA
Bratislava
Trnava
Nitra
Trenčín
Žilina
Martin
Banská Bystrica
Zvolen
Lučenec
Poprad
Prešov
Košice
Humenné
Michalovce
Bardejov
TATRY
NÍZKE TATRY
TATRANSKÝ NÁRODNÝ PARK
WIEN VIENNA
NIEDER-ÖSTERREICH
ÖSTERREICH
MÜHLVIERTEL
Linz
Wels
Steyr
Sankt Pölten
Wiener Neustadt
Graz
Leoben
Klagenfurt
Villach
Salzburg
Passau
NIEDERE TAUERN
KARAWANKEN
KÄRNTEN
STEIERMARK
JUGOSLAVIJA
YUGOSLAVIA
SLOVENIJA
HRVATSKA CROATIA
SRBIJA SERBIA
Maribor
Varaždin
Koprivnica
Bjelovar
Virovitica
Osijek
Sombor
Subotica
Senta
Kikinda
Bečej
Novi Bečej
MAGYARORSZÁG
HUNGARY
BUDAPEST
Győr
Sopron
Szombathely
Zalaegerszeg
Nagykanizsa
Kaposvár
Pécs
Komló
Székesfehérvár
Veszprém
Tatabánya
Dunaújváros
Kecskemét
Szolnok
Szeged
Hódmezővásárhely
Békéscsaba
Debrecen
Nyíregyháza
Miskolc
Eger
Salgótarján
Gyöngyös
Cegléd
Baja
Balaton
Neusiedler See
Danube
Duna
Tisza
ALFÖLD
HORTOBÁGY
BAKONY
MÁTRA
BÜKK
ROMÂNIA
ROMANIA
Oradea
Arad
Satu Mare
Carei
BIHOR
MUNŢII APUSENI
UKRAINSKAJA S.S.R.
Užgorod
Mukačevo
Beregovo
Čop
ZAKARPATSKAJA OBLAST'

Belgium, Netherlands, and Luxembourg

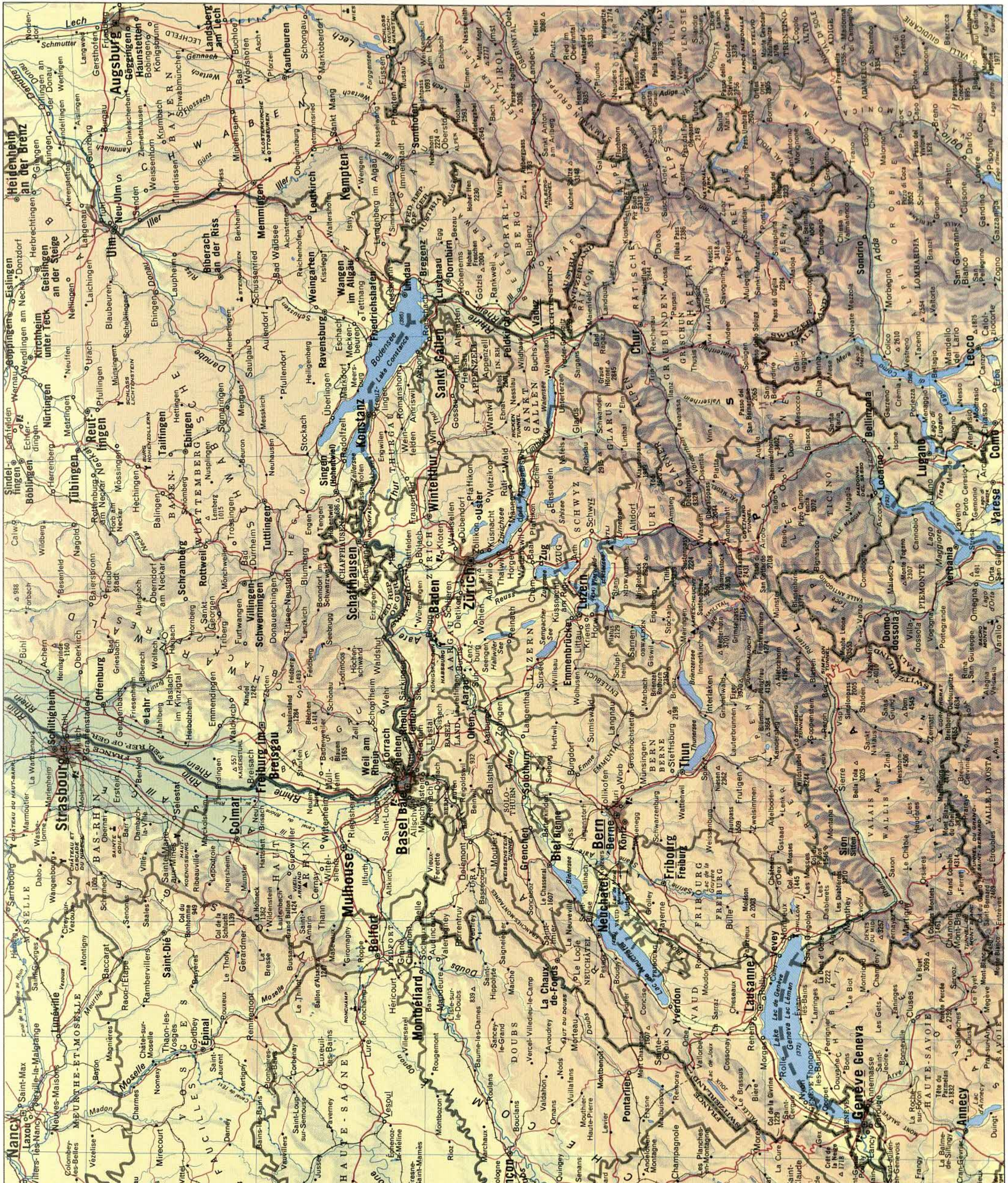


Scale 1:1,500,000

One centimeter represents 15 kilometers.
One inch represents approximately 24 miles.
Lambert Conformal Conic Projection

Kilometers 0 10 20 30 40 50 Km.
Statute Miles 0 10 20 30 40 50 Mi.

Switzerland

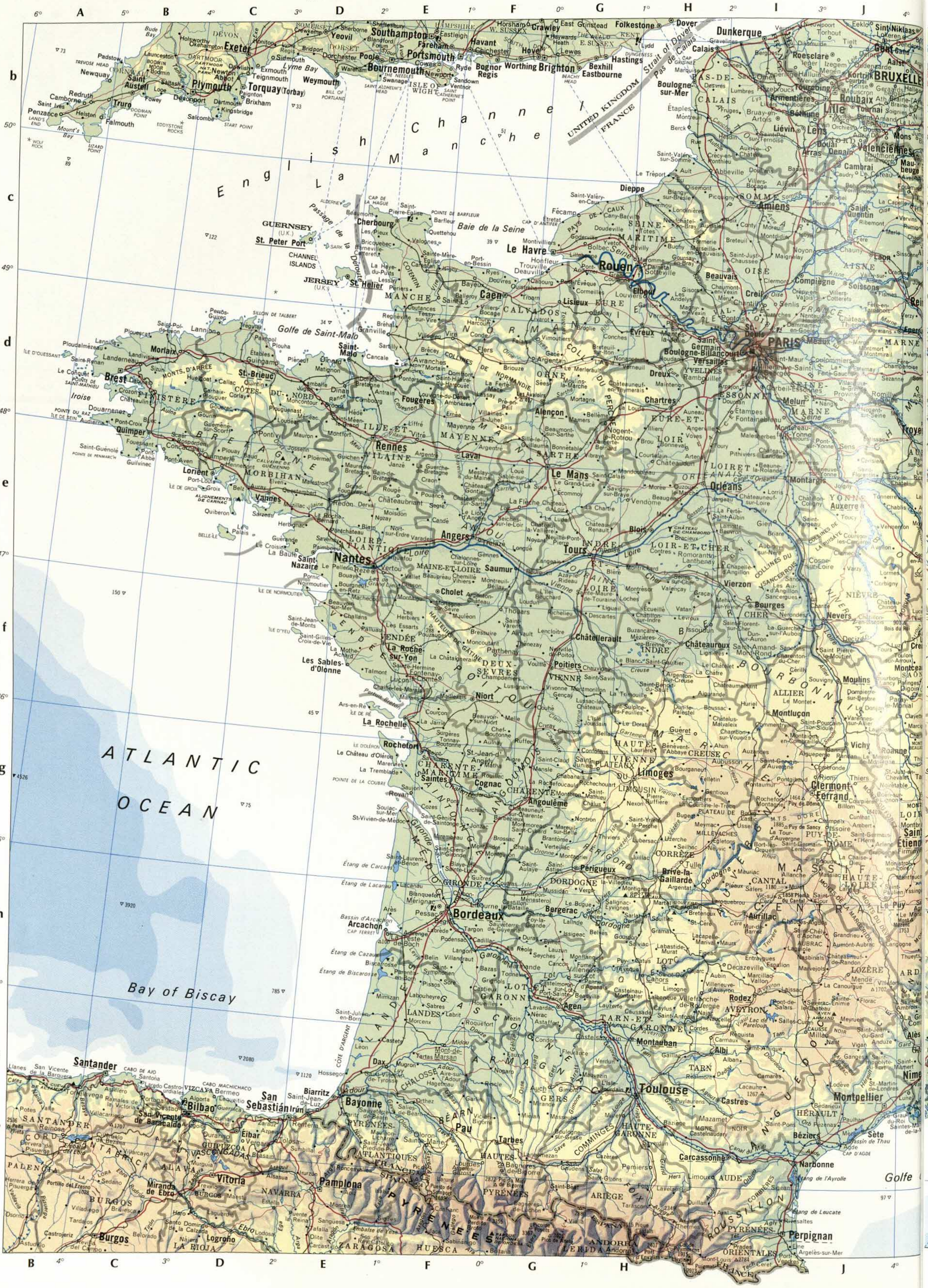


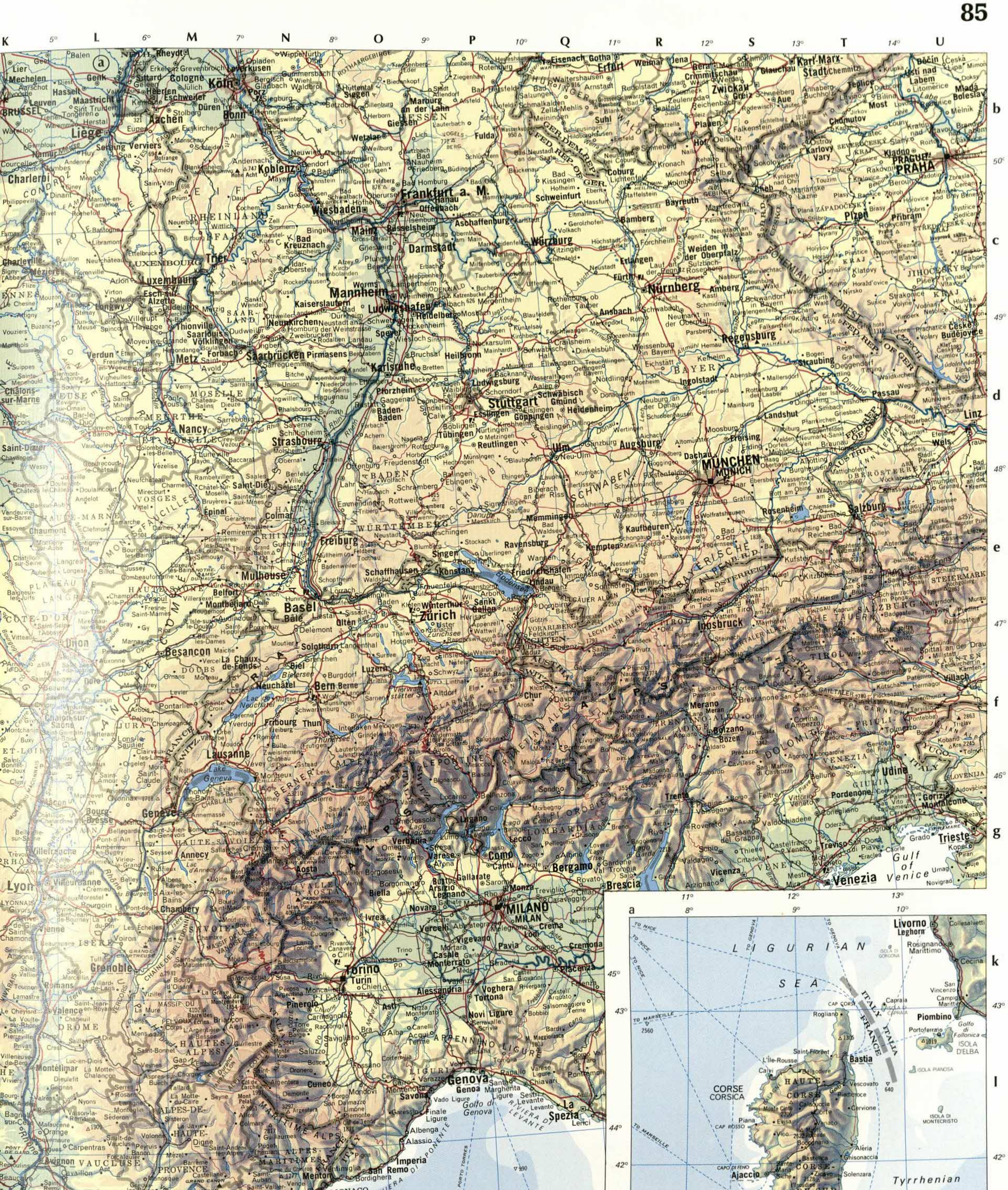
Scale 1:1,500,000

One centimeter represents 15 kilometers.
One inch represents approximately 24 miles.
Lambert Conformal Conic Projection

Kilometers 0 10 20 30 40 50 Km.
Statute Miles 0 10 20 30 40 50 Mi.

France and the Alps





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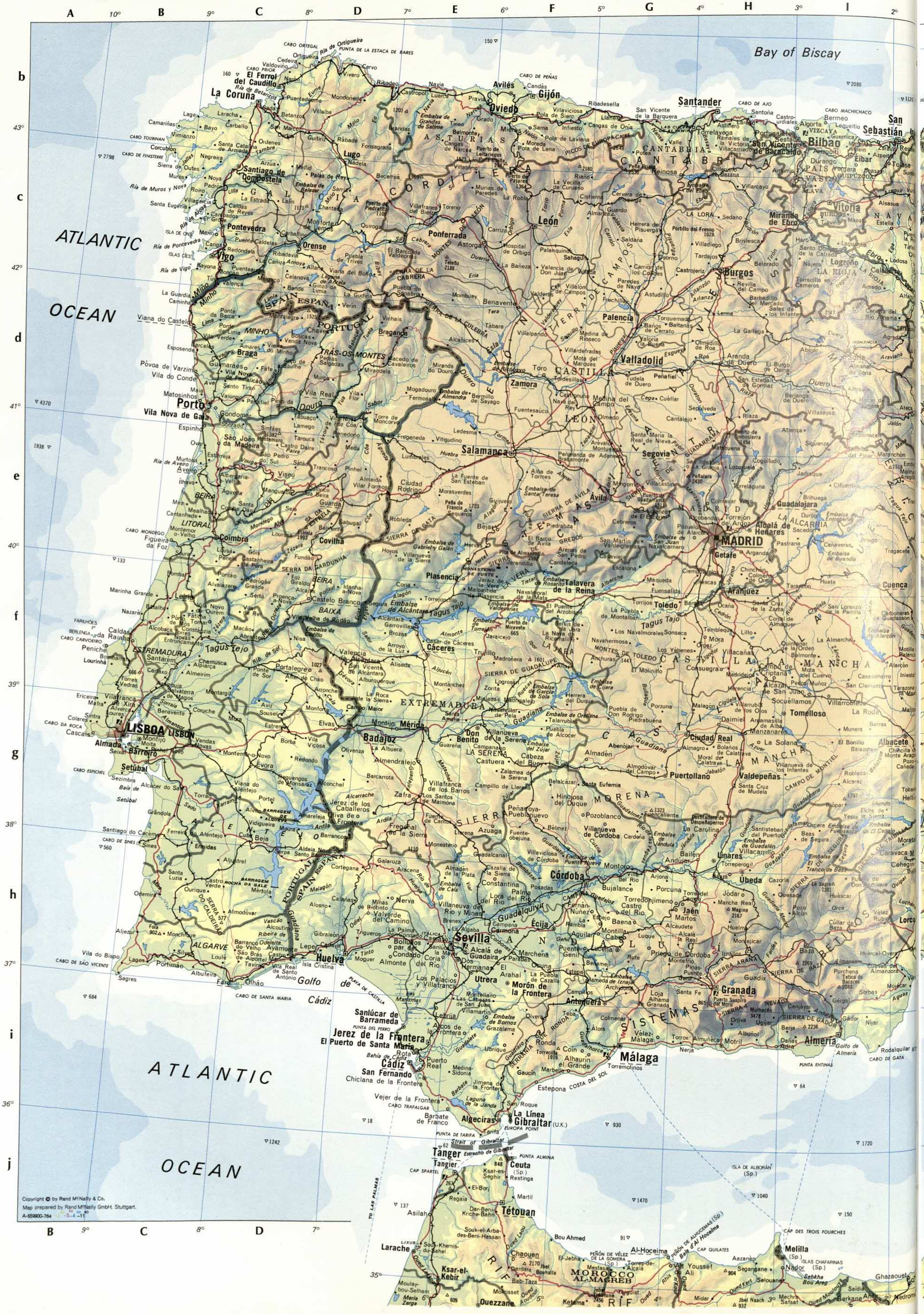
A-559495-764

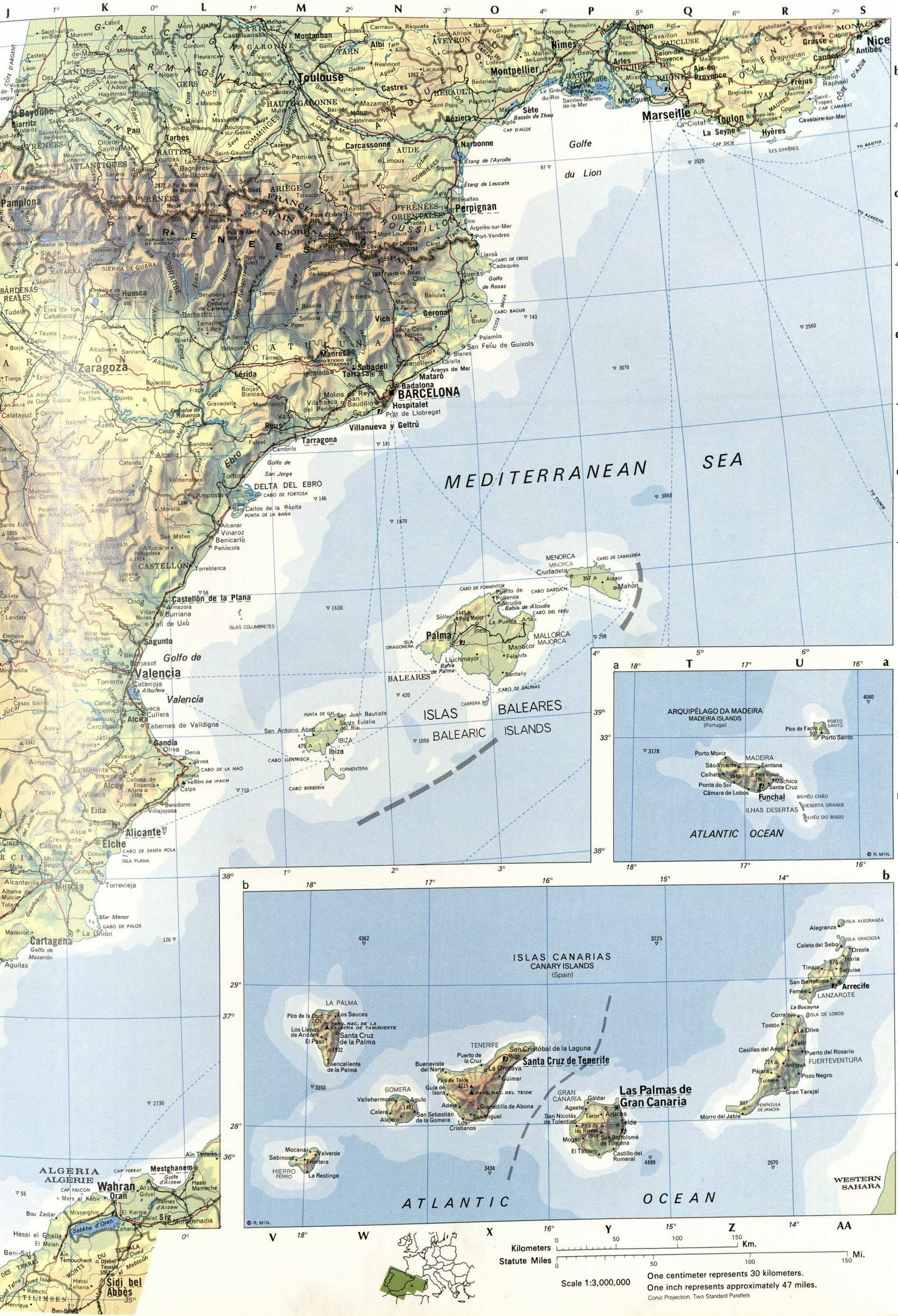
Kilometers 0 50 100 150 Km.
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Lambert Conformal Conic Projection

Spain and Portugal

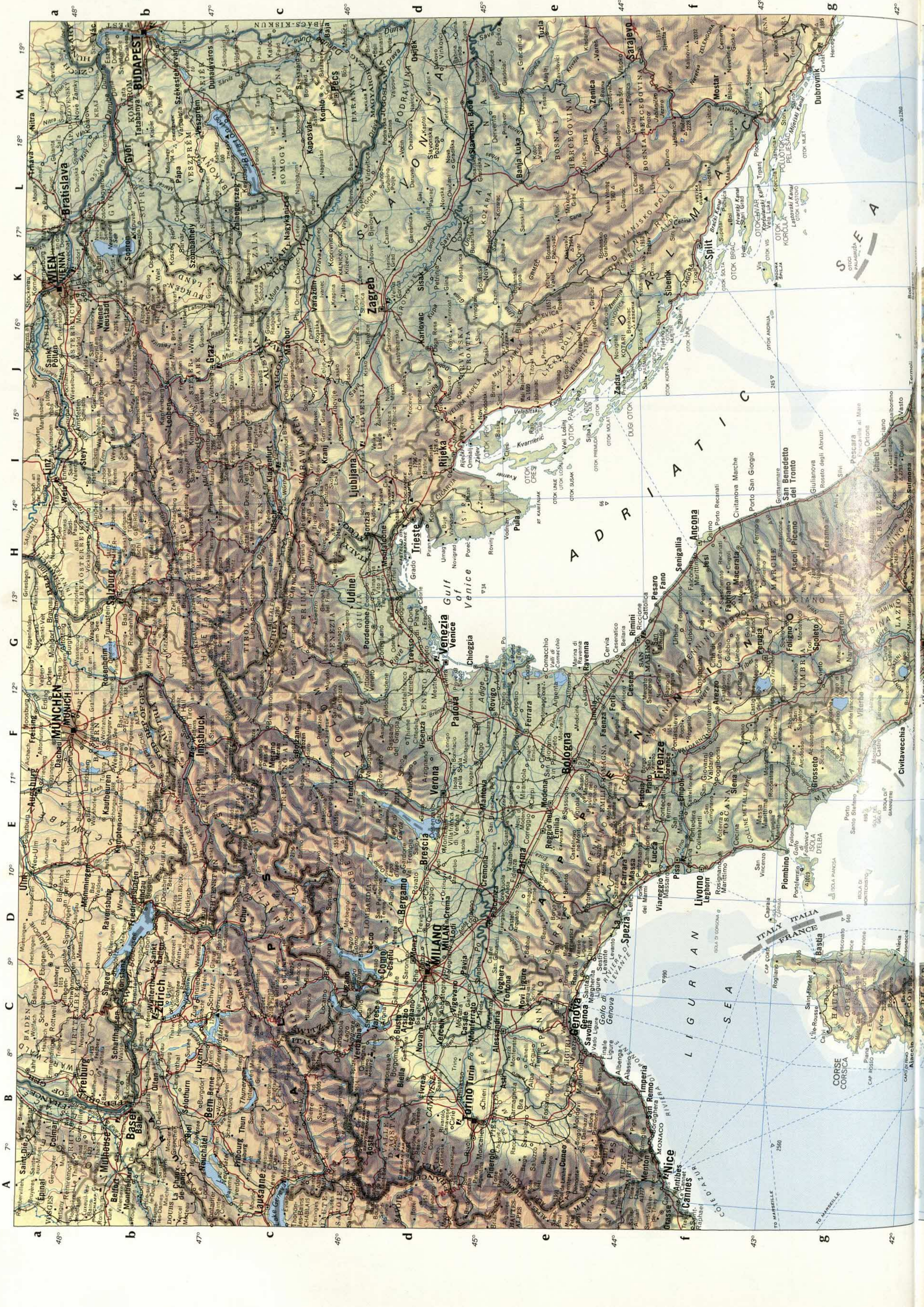


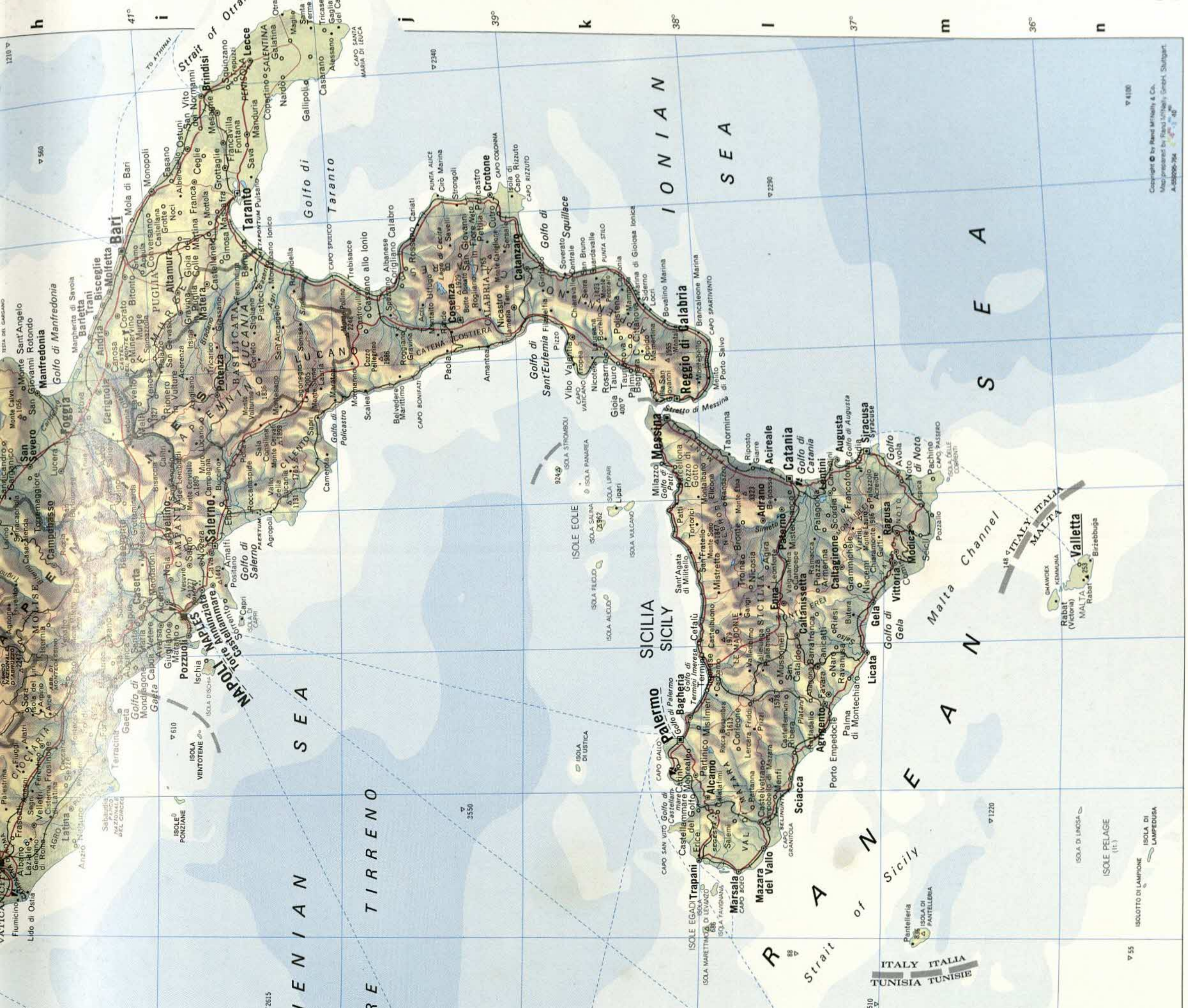


Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Conic Projection, Two Standard Parallels

Italy


ADRIATIC SEA
LIGURIAN SEA
Gulf of Venice
Golfo di Genova
ALPS
APPENNINO
DOLOMITI
MARITIME ALPS
ITALY
FRANCE
CORSE CORSICA
ISOLA D'ELBA
SAN MARINO
MÜNCHEN MUNICH
WIEN VIENNA
BUDAPEST
Bratislava
Zagreb
Ljubljana
Sarajevo
Split
Dubrovnik
Mostar
Zürich
Bern Berne
Basel Bâle
Lausanne
Innsbruck
Salzburg
Graz
Linz
Klagenfurt
Trieste
Rijeka
Venezia Venice
Padova
Verona
Vicenza
Trento
Bolzano
Udine
Brescia
Bergamo
MILANO MILAN
Como
Torino Turin
Genova
Nice
Cannes
Monaco
Sanremo
La Spezia
Livorno Leghorn
Pisa
Lucca
Firenze
Siena
Bologna
Modena
Parma
Piacenza
Mantova
Ferrara
Ravenna
Rimini
Pesaro
Ancona
Perugia
Pescara
Bastia
Viterbo
Civitavecchia
Grosseto
Piombino
Zadar
Šibenik
Pula
Osijek
Pécs
Banja Luka
Tuzla
Zenica
a b c d e f g
A B C D E F G H I J K L M
48° 47° 46° 45° 44° 43° 42°
7° 8° 9° 10° 11° 12° 13° 14° 15° 16° 17° 18° 19°



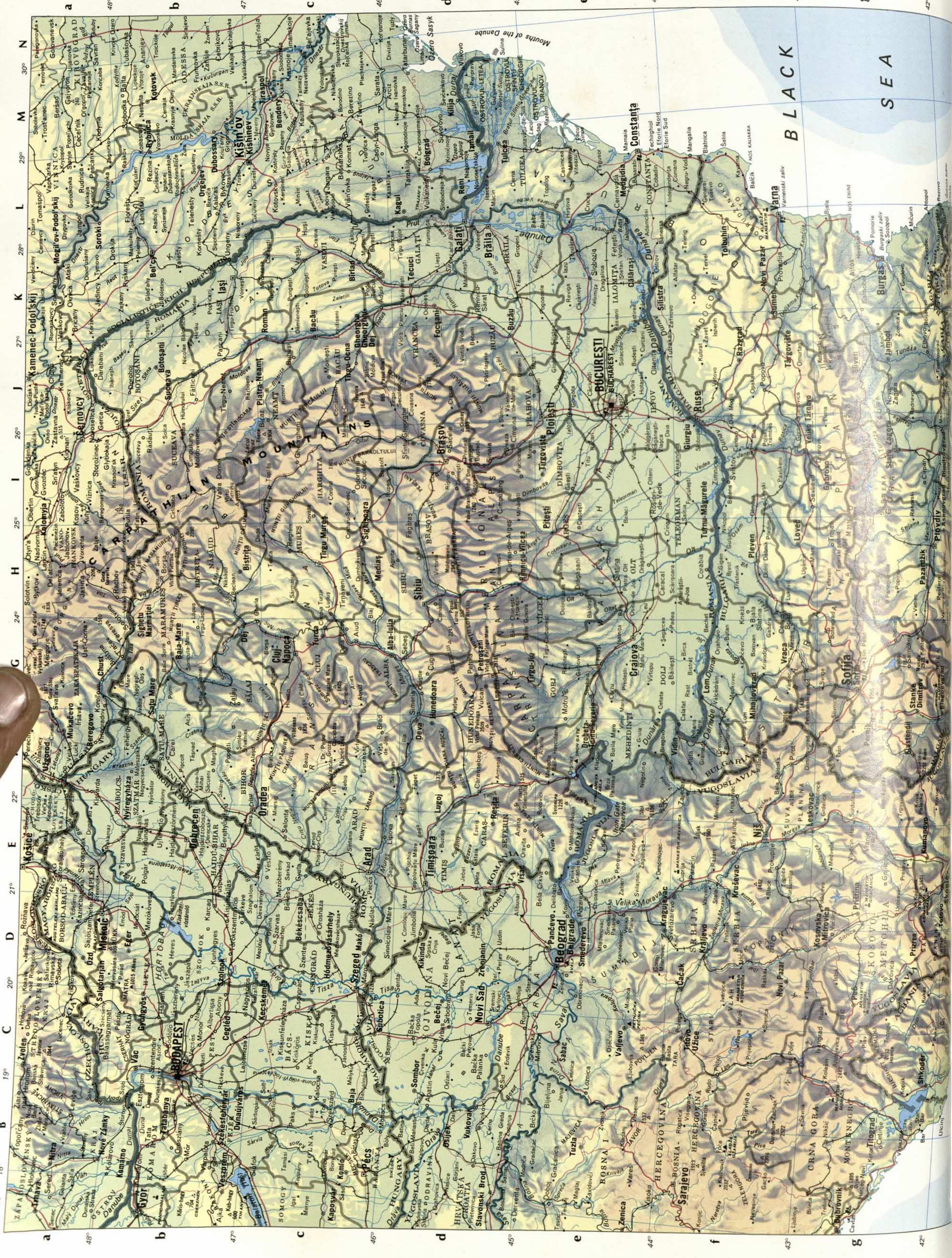
Kilometers 0 50 100 150 Km.

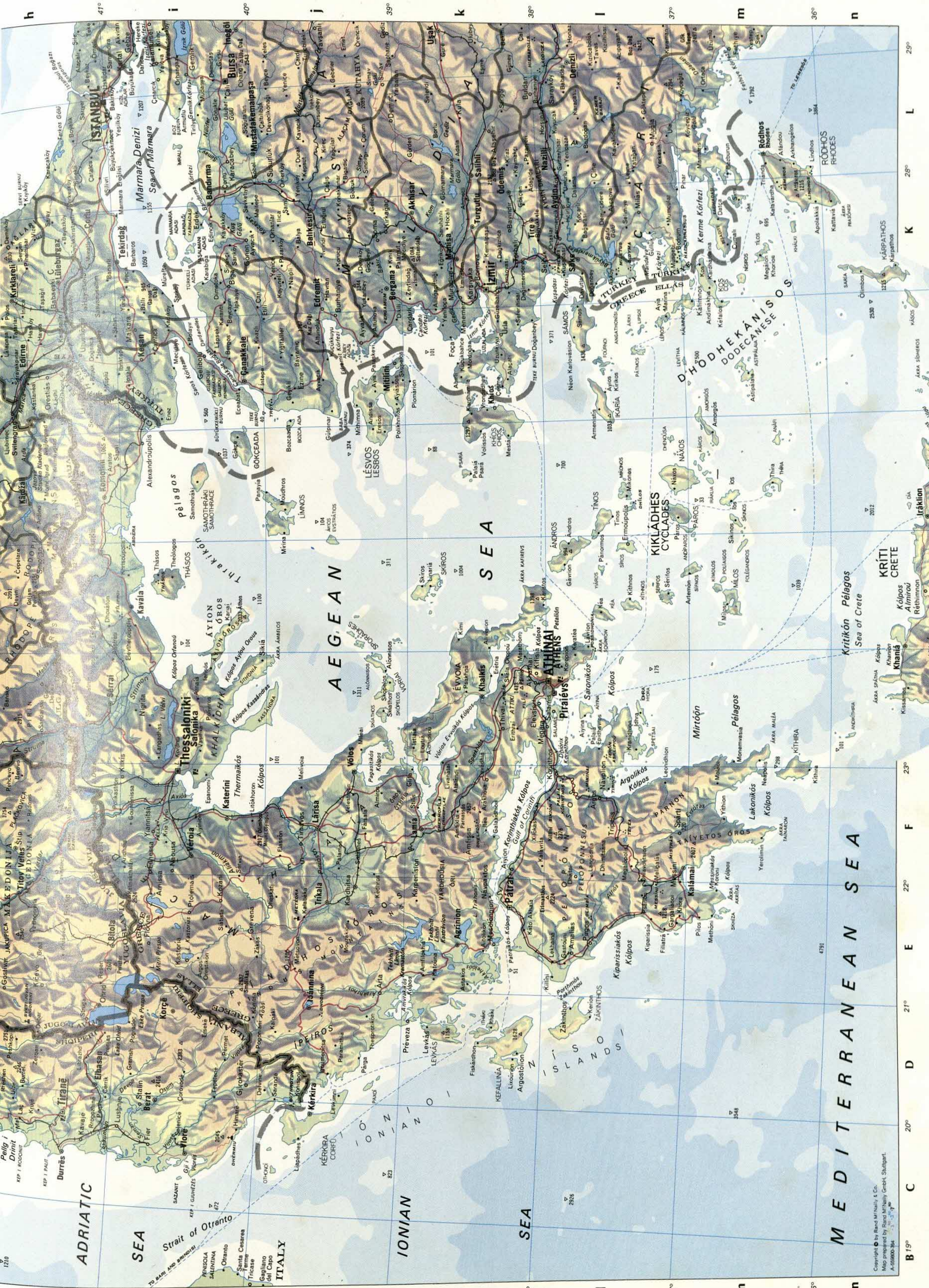
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Conic Projection, Two Standard Parallels

Southeastern Europe





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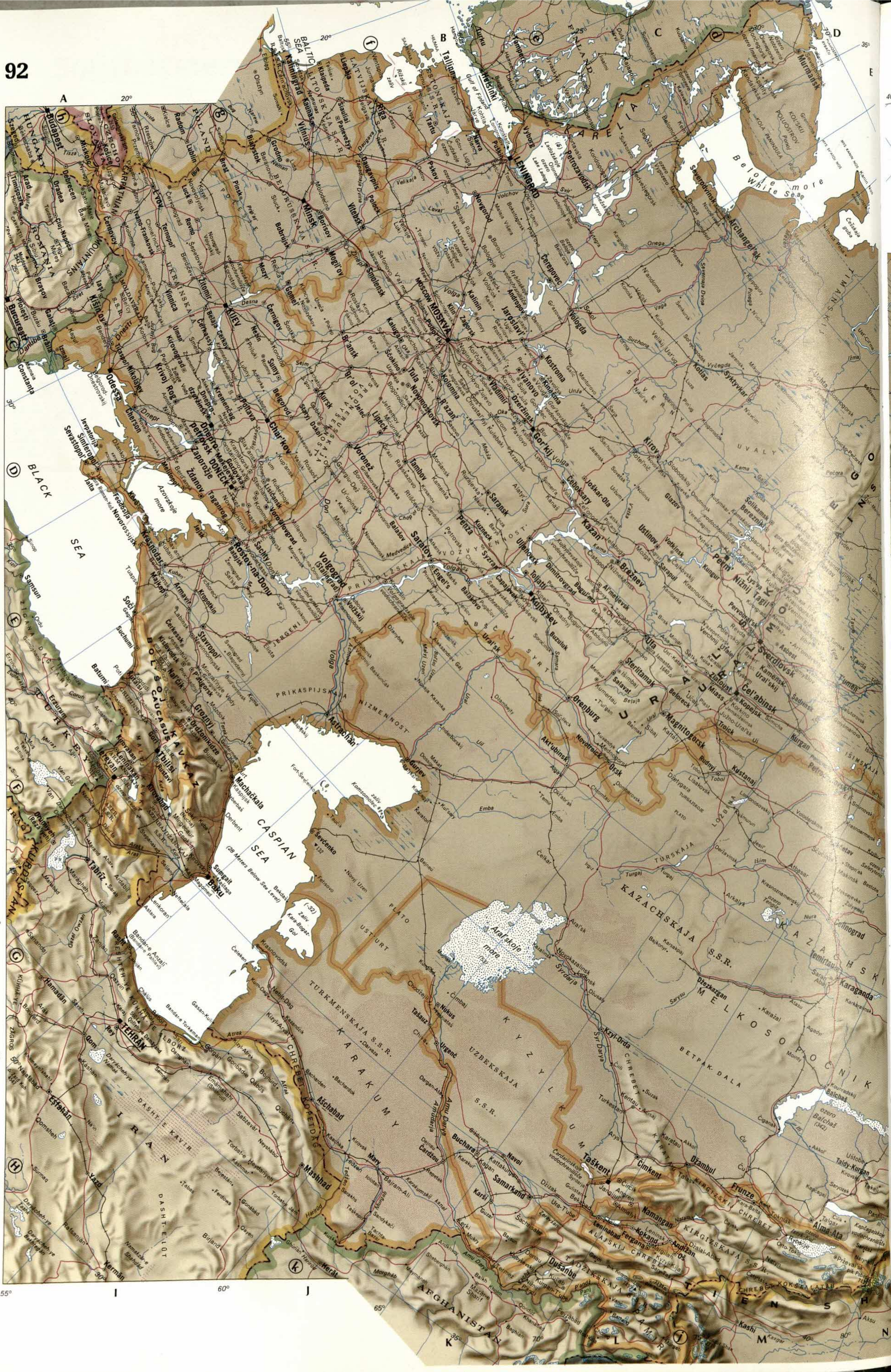
A-556800-784

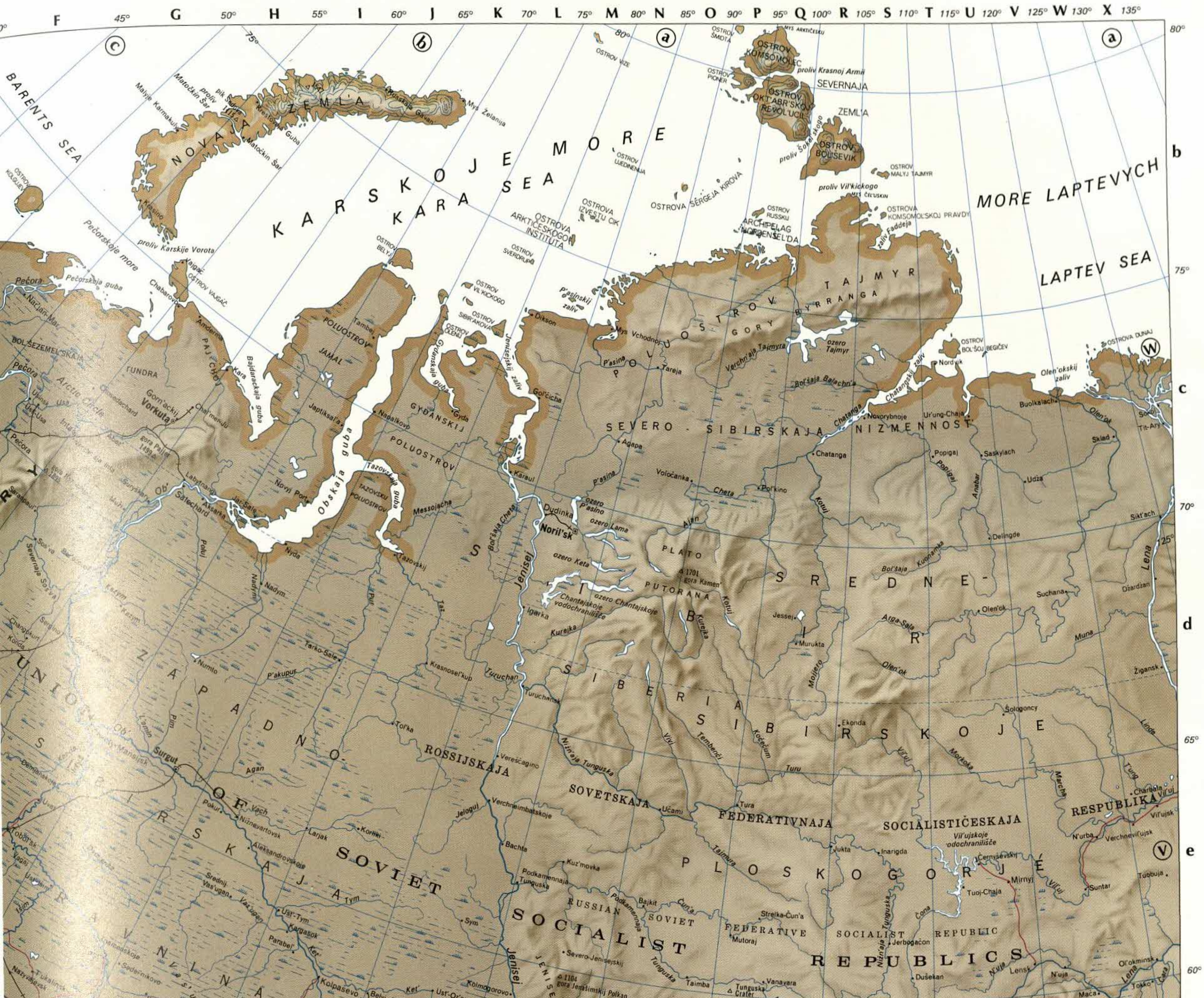
Kilometers 0 50 100 150 Km.
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Conic Projection, Two Standard Parallels


A
B
C
D
E
i
j
k
l
I
J
K
L
M
N
20°
25°
30°
35°
40°
45°
55°
60°
65°
70°
80°
BALTIC SEA
Gulf of Finland
FINLAND
KARELIA
Beloje more
White Sea
KOL'SKIJ POLUOSTROV
Murmansk
Archangel'sk
Helsinki
Turku
Tallinn
Riga
Vilnius
Kaunas
Kaliningrad
Klaipėda
Liepāja
LATVIJSKAJA S.S.R.
LITOVSKAJA S.S.R.
ESTONSKAJA S.S.R.
Pskov
Tartu
Narva
Vyborg
Petrozavodsk
LENINGRAD
Novgorod
Vologda
Čerepovec
Jaroslavl'
Kostroma
Ivanovo
Vladimir
MOSKVA
Moscow
Kalinin
Smolensk
Vitebsk
Polock
Minsk
Bobrujsk
Mogilev
Gomel'
Brest
Grodno
Pinsk
BELORUSSKAJA S.S.R.
POLAND
Białystok
Lublin
Radom
HUNGARY
Budapest
Miskolc
Debrecen
Szeged
CZECHOSLOVAKIA
ROMANIA
Cluj-Napoca
Timişoara
Arad
Oradea
Braşov
Ploieşti
Bucureşti
Galaţi
Brăila
Constanţa
Dunărea
CARPATHIAN MOUNTAINS
L'vov
Rovno
Luck
Ternopol'
Ivano-Frankovsk
Černovcy
Chmel'nickij
Vinnica
Žitomir
Kišinev
MOLDAVSKAJA S.S.R.
UKRAINSKAJA S.S.R.
KIJEV
Černigov
Čerkassy
Kirovograd
Nikolajev
Odessa
Cherson
Krivoj Rog
Dnepropetrovsk
Zaporožje
Kremenčug
Poltava
Char'kov
Sumy
Kursk
Belgorod
Orel
Br'ansk
Kaluga
Tula
Rjazan'
Lipeck
Voronež
Tambov
Penza
Saransk
Gor'kij
Dzeržinsk
Kirov
Čeboksary
Kazan'
Ul'janovsk
Tol'jatti
Kujbyšev
Syzran'
Saratov
Engel's
Volgograd
Volžskij
Rostov-na-Donu
Taganrog
Ždanov
Doneck
Makejevka
Gorlovka
Vorošilovgrad
Šachty
Krasnodar
Novorossijsk
Stavropol'
Armavir
Kropotkin
Majkop
Soči
Suchumi
Batumi
Kerč'
Feodosija
Jalta
Sevastopol'
Simferopol'
Jevpatorija
Azovskoje more
BLACK SEA
Samsun
TURKEY
Erzurum
Tbilisi
Jerevan
Kirovabad
Groznyj
Ordžonikidze
Nal'čik
Machačkala
Derbent
Sumgait
Baku
BOL'ŠOJ KAVKAZ
CAUCASUS
Tabriz
KURDISTAN
IRAQ
CASPIAN SEA
(28 Meters Below Sea Level)
Astrachan'
Gurjev
Ševčenko
Zaliv Kara-Bogaz-Gol
(-32)
Krasnovodsk
Nebit-Dag
Rasht
Tehrān
Hamadān
Qom
Eşfahān
Mashhad
IRAN
DASHT-E KAVIR
DASHT-E LŪT
Yazd
Kermān
Herāt
AFGHANISTAN
PRIKASPIJSKAJA NIZMENNOST'
PRIVOLŽSKAJA VOZVYŠENNOST'
Ural'sk
Orenburg
Akt'ubinsk
Orsk
Novotroick
Magnitogorsk
Čel'abinsk
Sverdlovsk
Kamensk-Ural'skij
Kurgan
Zlatoust
Miass
Ufa
Sterlitamak
Salavat
Beloreck
Perm'
Nižnij Tagil
Berezniki
Solikamsk
Ustinov
Glazov
Votkinsk
Sarapul
Al'metjevsk
Bugul'ma
Buzuluk
URAL
OBŠČIJ SYRT
TIMANSKIJ KR'AŽ
UVALY
SEVERNYJE
Syktyvkar
Kotlas
Severodvinsk
Kustanaj
Rudnyj
Troick
Petropavlovsk
Celinograd
Karaganda
Temirtau
Džezkazgan
KAZACHSKAJA S.S.R.
KAZACHSKIJ MELKOSOPOČNIK
BETPAK-DALA
TURGAJ
Aral'skoje more
(53)
Aral'sk
Nukus
Tašauz
Urgenč
Čimbaj
USTJURT
PLATO
KARAKUMY
KYZYLKUM
TURKMENSKAJA S.S.R.
UZBEKSKAJA S.S.R.
Aschabad
Mary
Čardžou
Bajram-Ali
Buchara
Navoi
Samarkand
Karši
Taškent
Čimkent
Džambul
Kzyl-Orda
Turkestan
Frunze
Alma-Ata
Taldy-Kurgan
ozero Balchaš
(342)
Balchaš
KIRGIZSKAJA S.S.R.
Namangan
Andižan
Fergana
Kokand
Leninabad
Dušanbe
TADŽIKSKAJA S.S.R.
ALAJSKIJ CHREBET
TIEN SHAN
PAMIR
Kashi
Amu-Darja
Syrdarja
Volga
Dnepr
Don
Ural
Emba
KOPET-DAG
ELBURZ MOUNTAINS
ZAGROS

Western and Central Soviet Union



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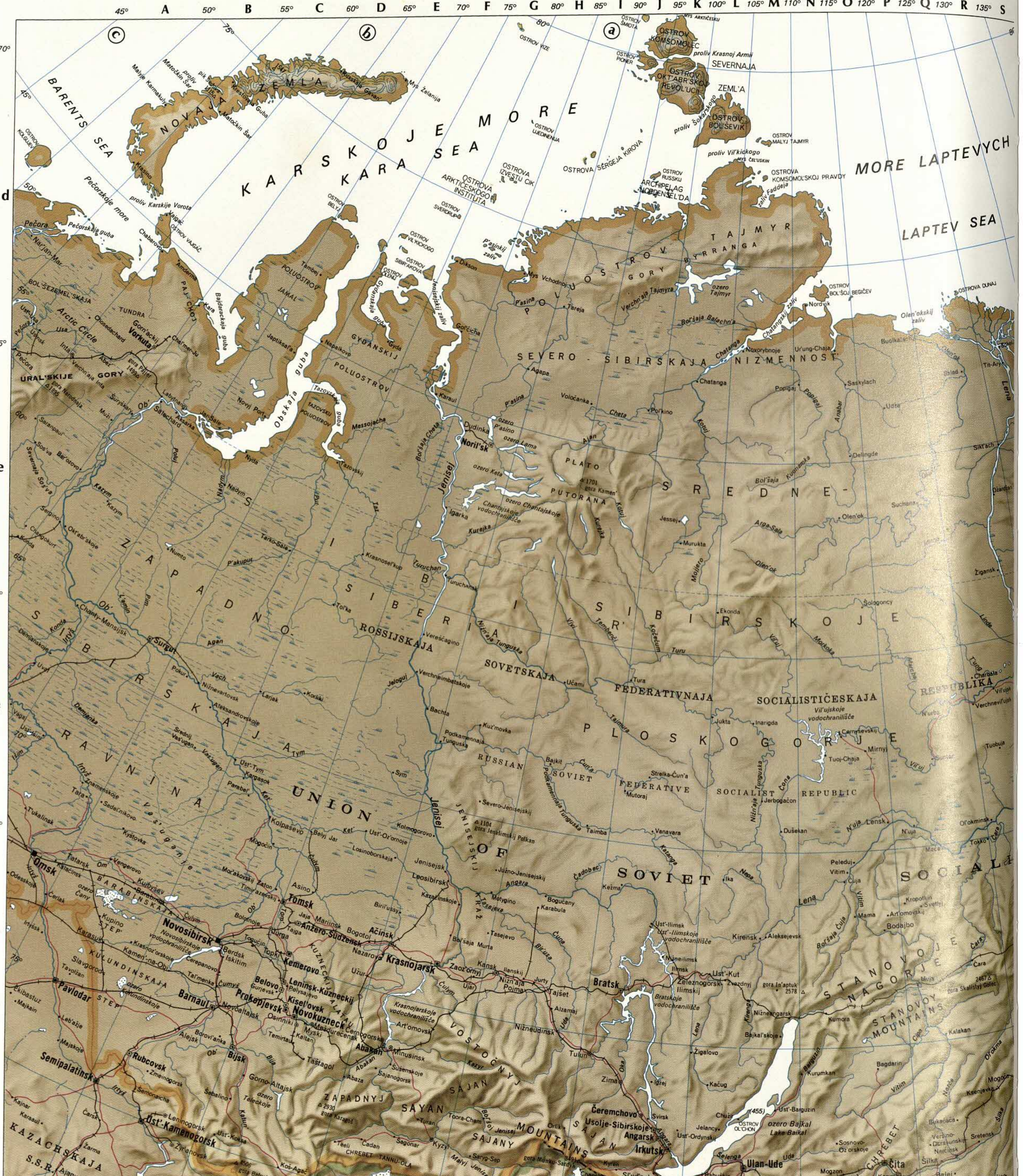
Map prepared by Esselte Map Service AB. Stockholm.
A-579594-264

Kilometers	0	200	400	600 Km.
Statute Miles	0	200	400	600 Mi.

Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Lambert Conformal Conic Projection

Central and Eastern Soviet Union



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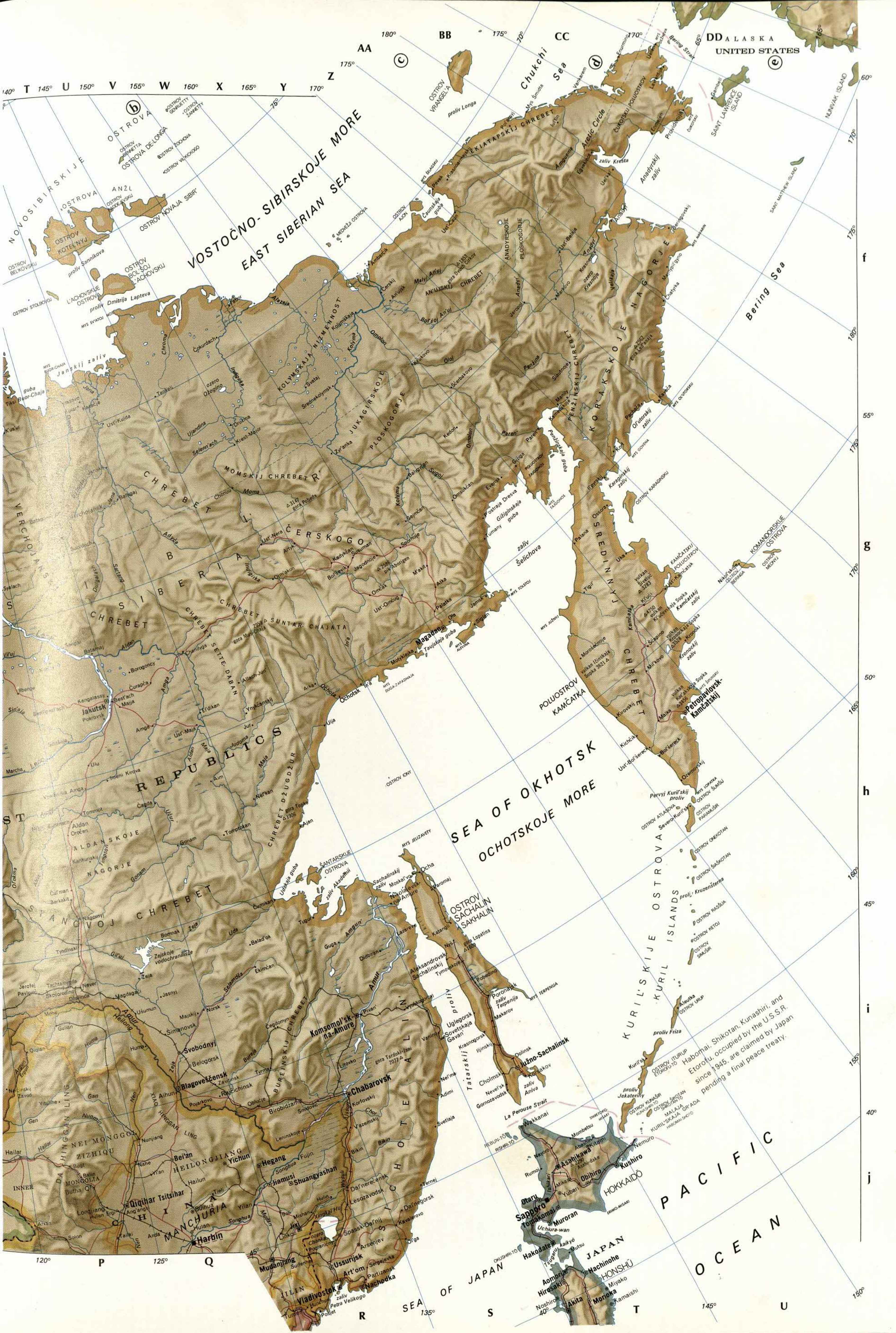
A-579395-264

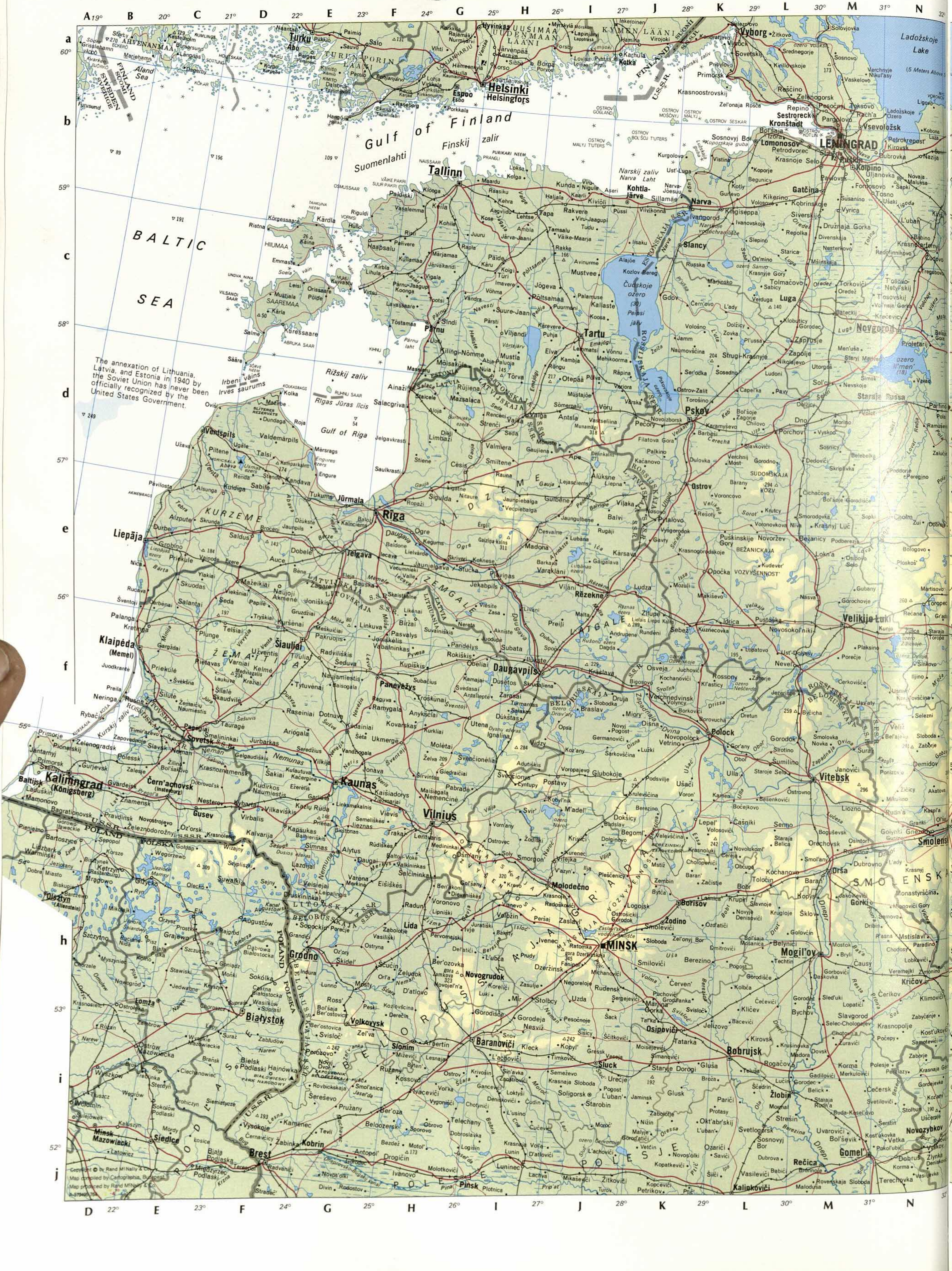
Kilometers 0 200 400 600 Km.
Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000
One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Lambert Conformal Conic Projection



Habomai, Shikotan, Kunashiri, and Etorofu, occupied by the U.S.S.R. since 1945, are claimed by Japan pending a final peace treaty.

Baltic and Moscow Regions



The annexation of Lithuania, Latvia, and Estonia in 1940 by the Soviet Union has never been officially recognized by the United States Government.

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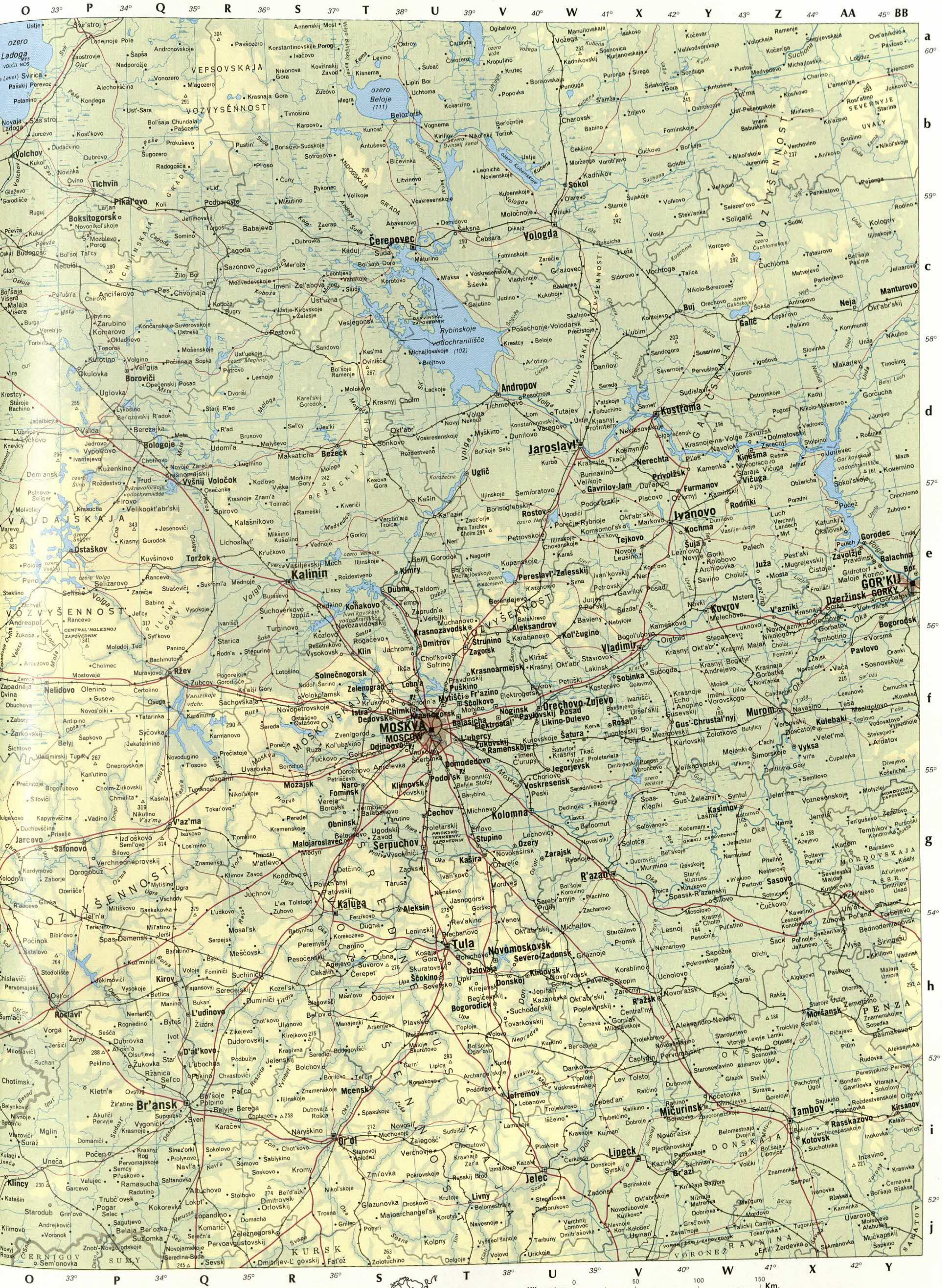
Map compiled by Cartographia, Budapest
Map produced by Rand McNally & Co.
B-579495-7SA

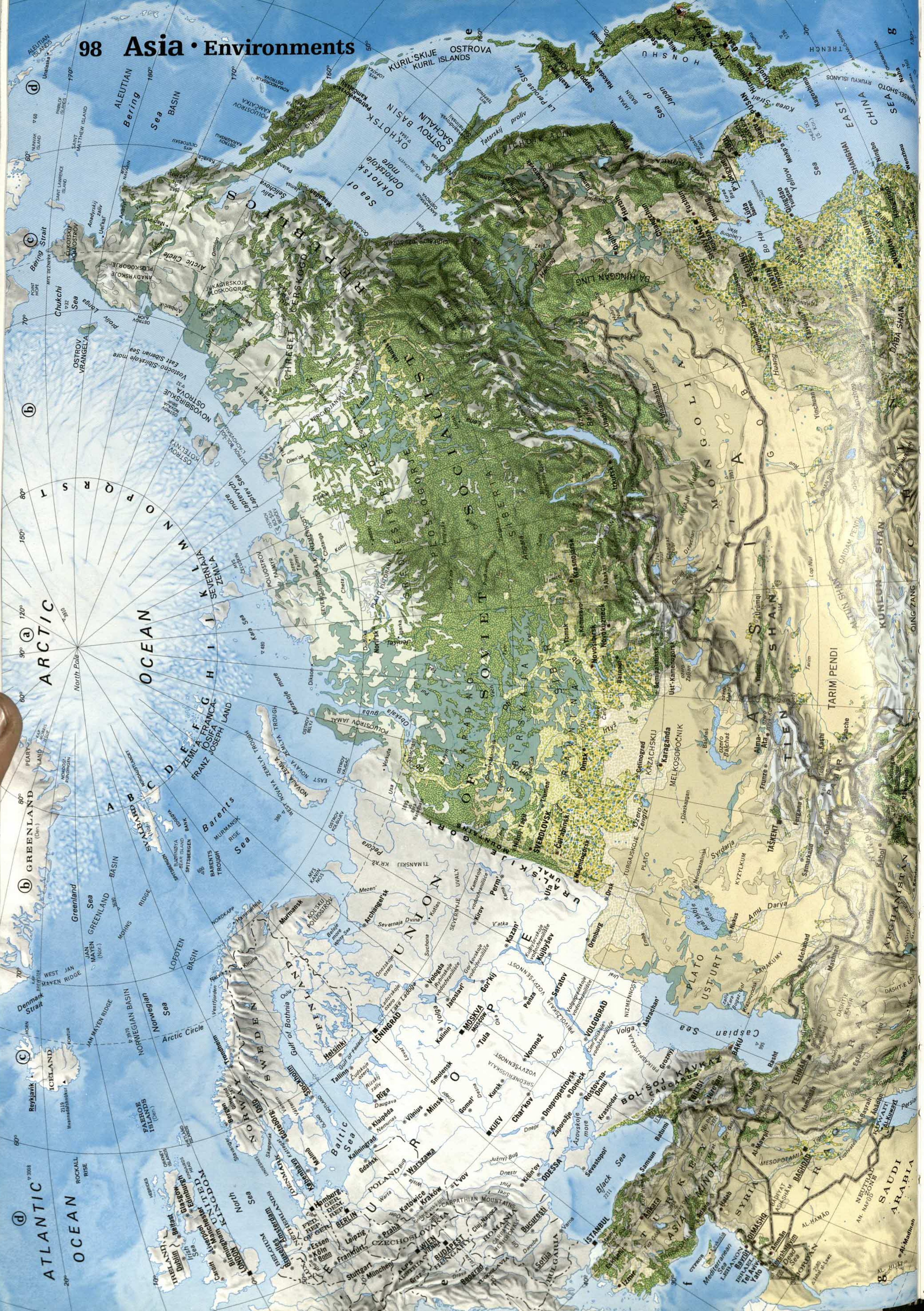


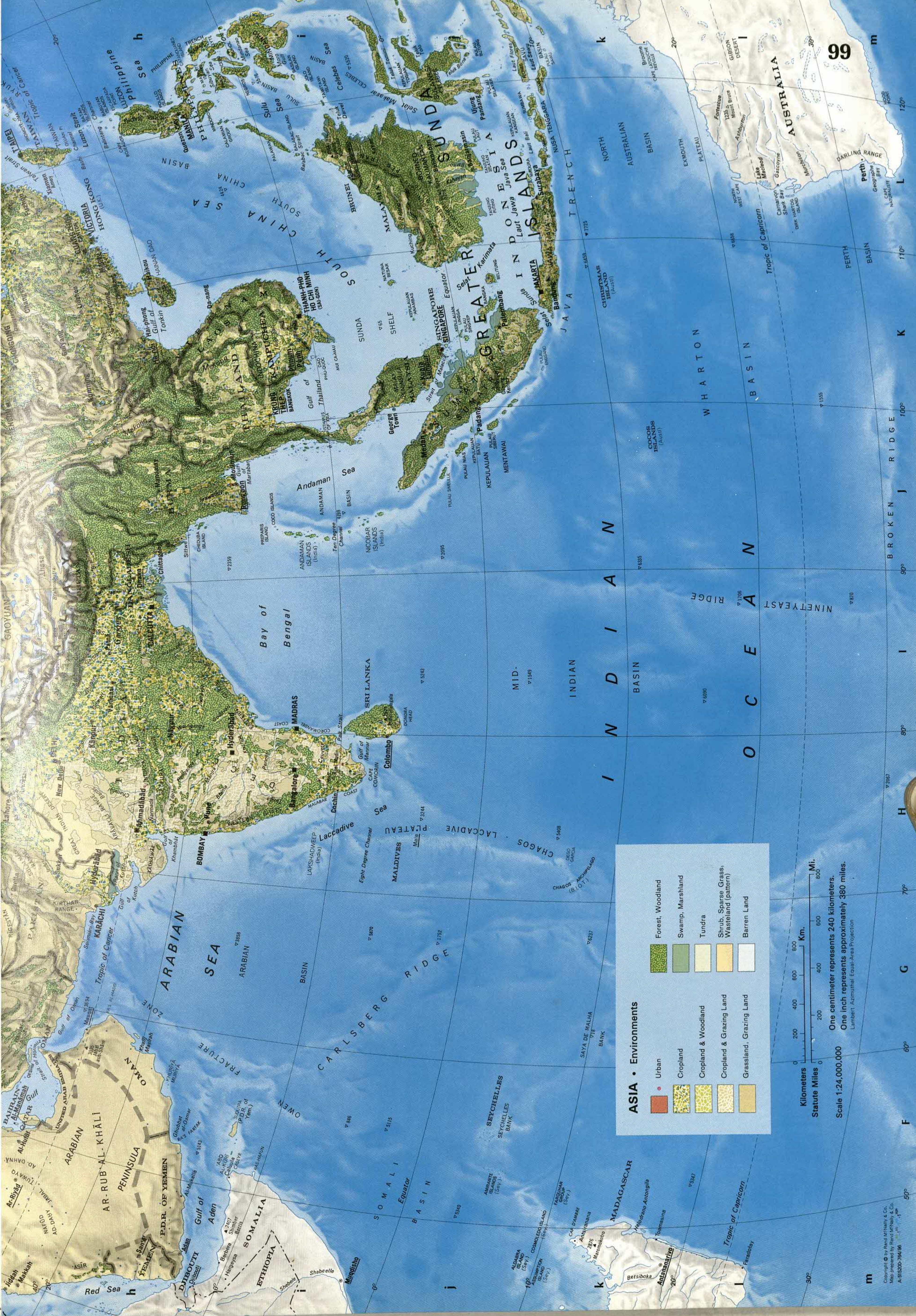
Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Lambert Conformal Conic Projection


ARCTIC OCEAN
North Pole
ATLANTIC OCEAN
GREENLAND (Den.)
ICELAND
Reykjavík
Denmark Strait
Greenland Sea
Norwegian Sea
Barents Sea
Kara Sea
Laptev Sea
East Siberian Sea
Chukchi Sea
Bering Strait
Bering Sea
Sea of Okhotsk
Sea of Japan
East China Sea
Yellow Sea
Caspian Sea
Black Sea
Baltic Sea
North Sea
Mediterranean Sea
Arctic Circle
SVALBARD
SPITSBERGEN
FRANZ JOSEPH LAND
ZEMLJA FRANCA-IOSIFA
NOVAJA ZEML'A
SEVERNAJA ZEML'A
NOVOSIBIRSKIJE OSTROVA
OSTROV VRANGEL'A
SACHALIN
KURIL ISLANDS
ALEUTIAN ISLANDS
KAMČATKA
HONSHU
RYUKYU ISLANDS
UNION OF SOVIET SOCIALIST REPUBLICS
ZAPADNO-SIBIRSKAJA RAVNINA
SREDNESIBIRSKOJE PLOSKOGORJE
SIBERIA
URAL'SKIJE GORY
MONGOLIA
GOBI
ALTAJ
TIEN SHAN
TARIM PENDI
KUNLUN SHAN
CHINA
AFGHANISTAN
IRAN
IRAQ
SAUDI ARABIA
SYRIA
TURKEY
ASIA MINOR
KAVKAZ
CAUCASUS
FINLAND
SWEDEN
NORWAY
UNITED KINGDOM
IRELAND
POLAND
CZECHOSLOVAKIA
ROMANIA
BULGARIA
HUNGARY
MOSKVA
LENINGRAD
KIJEV
Helsinki
Stockholm
Oslo
København
BERLIN
Warszawa
Praha
Wien
Budapest
București
Sofija
İstanbul
Ankara
Dimashq
Baghdad
Tehrān
Kabol
Taškent
Alma-Ata
Ürümqi
Irkutsk
Novosibirsk
Omsk
Sverdlovsk
Čel'abinsk
Kujbyšev
Volgograd
Baku
Tbilisi
Harbin
Shenyang
Beijing
Tianjin
Shanghai
Seoul
Pyongyang
Vladivostok
Chabarovsk
Magadan
Jakutsk
Noril'sk
Murmansk
Archangel'sk
Ozero Bajkal
Ozero Balchaš
Aral'skoje more
Lena
Jenisej
Ob'
Irtyš
Amur
Volga
Don
Dnepr
Huang
Amu Darya
Syrdarja



ASIA • Environments

■ ●	Urban
▨	Cropland
▨	Cropland & Woodland
▨	Cropland & Grazing Land
▨	Grassland, Grazing Land
▨	Forest, Woodland
▨	Swamp, Marshland
▨	Tundra
▨	Shrub, Sparse Grass; Wasteland (pattern)
▨	Barren Land

Kilometers 0 200 400 600 800 Km.

Statute Miles 0 200 400 600 Mi.

Scale 1:24,000,000

One centimeter represents 240 kilometers.

One inch represents approximately 380 miles.

Lambert Azimuthal Equal-Area Projection

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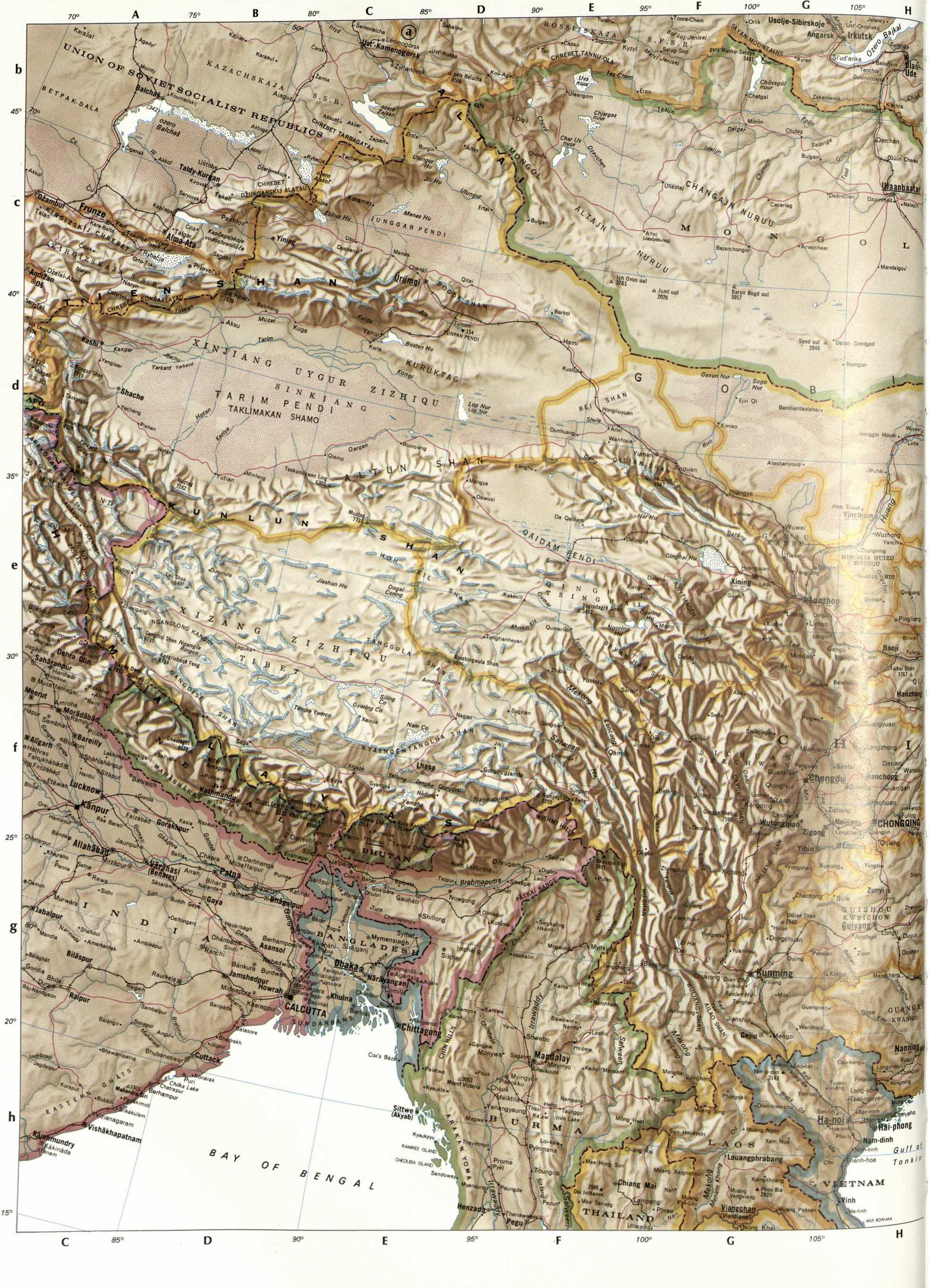
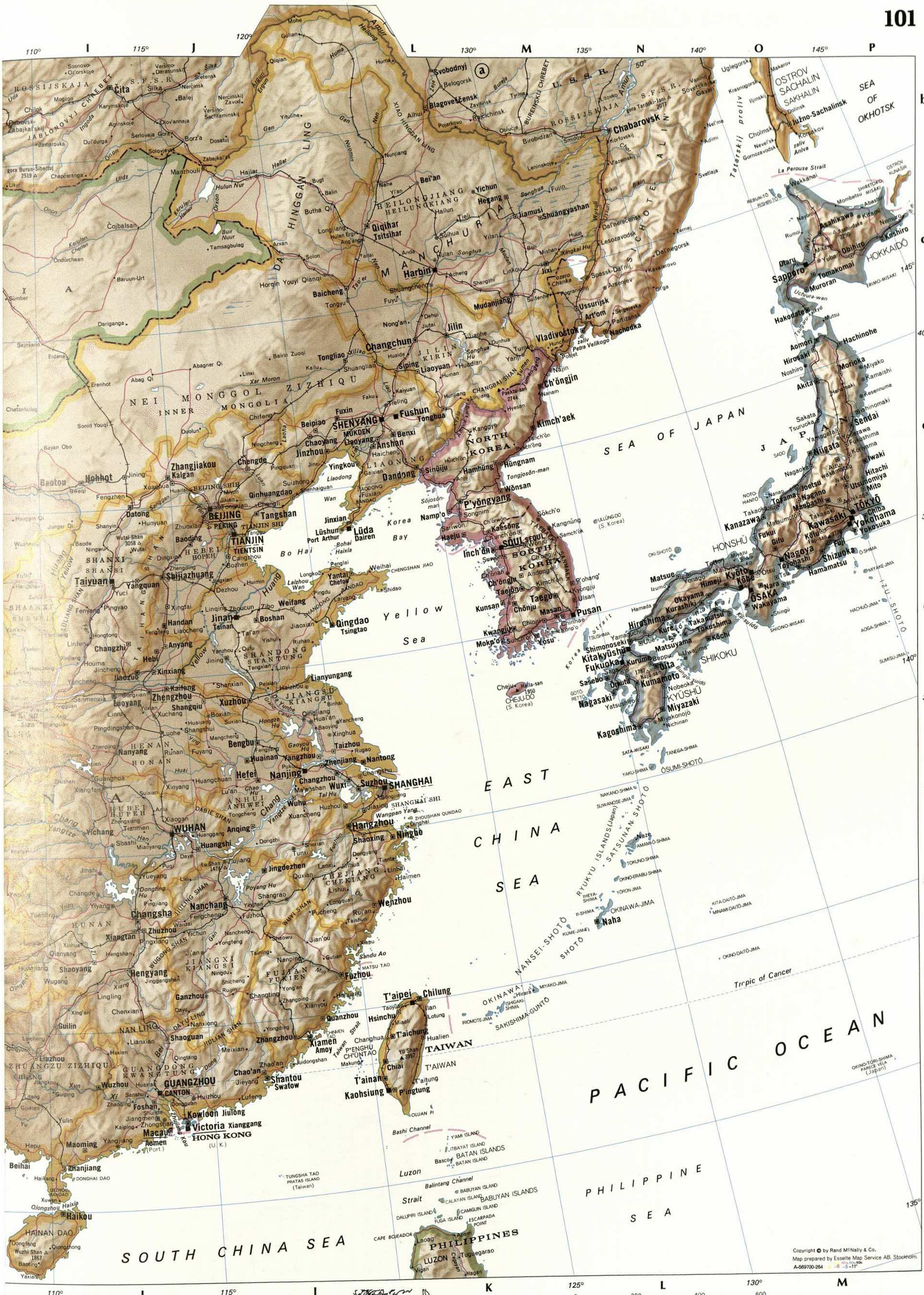
Map prepared by Rand McNally & Co.
A-515200-764/96


70°
A
75°
B
80°
C
85°
D
90°
E
95°
F
100°
G
105°
H
b
c
d
e
f
g
h
45°
40°
35°
30°
25°
20°
15°
UNION OF SOVIET SOCIALIST REPUBLICS
KAZACHSKAJA S.S.R.
ROSSIJSKAJA S.F.S.R.
KIRGIZSKAJA S.S.R.
BETPAK-DALA
ozero Balchaš
Balchaš
Alma-Ata
Frunze
Džambul
Andižan
Oš
Ust'-Kamenogorsk
Semipalatinsk
Irkutsk
Ulan-Ude
Ozero Bajkal
SAYAN MOUNTAINS
CHREBET TANNU-OLA
ALTAI
MONGOL ALTAJN NURUU
CHANGAJN NURUU
MONGOLIA
Ulaanbaatar
JUNGGAR PENDI
TIEN SHAN
Ürümqi
BOGDA SHAN
TURPAN PENDI
Hami
Kashi
Shache
Hotan
Yining
Aksu
XINJIANG UYGUR ZIZHIQU
SINKIANG
TARIM PENDI
TAKLIMAKAN SHAMO
KURUKTAG
Lop Nur
BEI SHAN
ALTUN SHAN
KUNLUN SHAN
QAIDAM PENDI
QINGHAI
TSINGHAI
Qinghai Hu
Xining
Lanzhou
GANSU
KANSU
NINGXIA HUIZU ZIZHIQU
Yinchuan
Huang
XIZANG ZIZHIQU
TIBET
NGANGLONG KANGRI
TANGGULA SHAN
NYAINQENTANGLHA SHAN
GANGDISE SHAN
Lhasa
Nam Co
Siling Co
HIMALAYAS
NEPAL
Kathmandu
BHUTAN
SICHUAN
SZECHWAN
Chengdu
CHONGQING
Kunming
YUNNAN
GUIZHOU
KWEICHOW
Guiyang
GUANGXI
KWANGSI
Nanning
Mekong
Salween
Brahmaputra
Irrawaddy
INDIA
New Delhi
Lucknow
Kanpur
Allahabad
Varanasi (Benares)
Patna
Gaya
CALCUTTA
Howrah
Jamshedpur
Cuttack
Vishakhapatnam
Rajahmundry
BANGLADESH
Dhaka
Chittagong
SUNDARBANS
BAY OF BENGAL
BURMA
Mandalay
Sittwe (Akyab)
Henzada
Pegu
THAILAND
Chiang Mai
LAOS
Louangphrabang
Viangchan (Vientiane)
VIETNAM
Ha-noi
Hai-phong
Gulf of Tonkin
EASTERN GHATS
CHIN HILLS
ARAKAN YOMA
MISHMI HILLS
PATKAI RANGE
MAHABHARAT RANGE



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Map prepared by Esselte Map Service AB, Stockholm.
A-569700-264

Kilometers 0 200 400 600 Km.

Statute Miles 0 200 400 600 Mi.

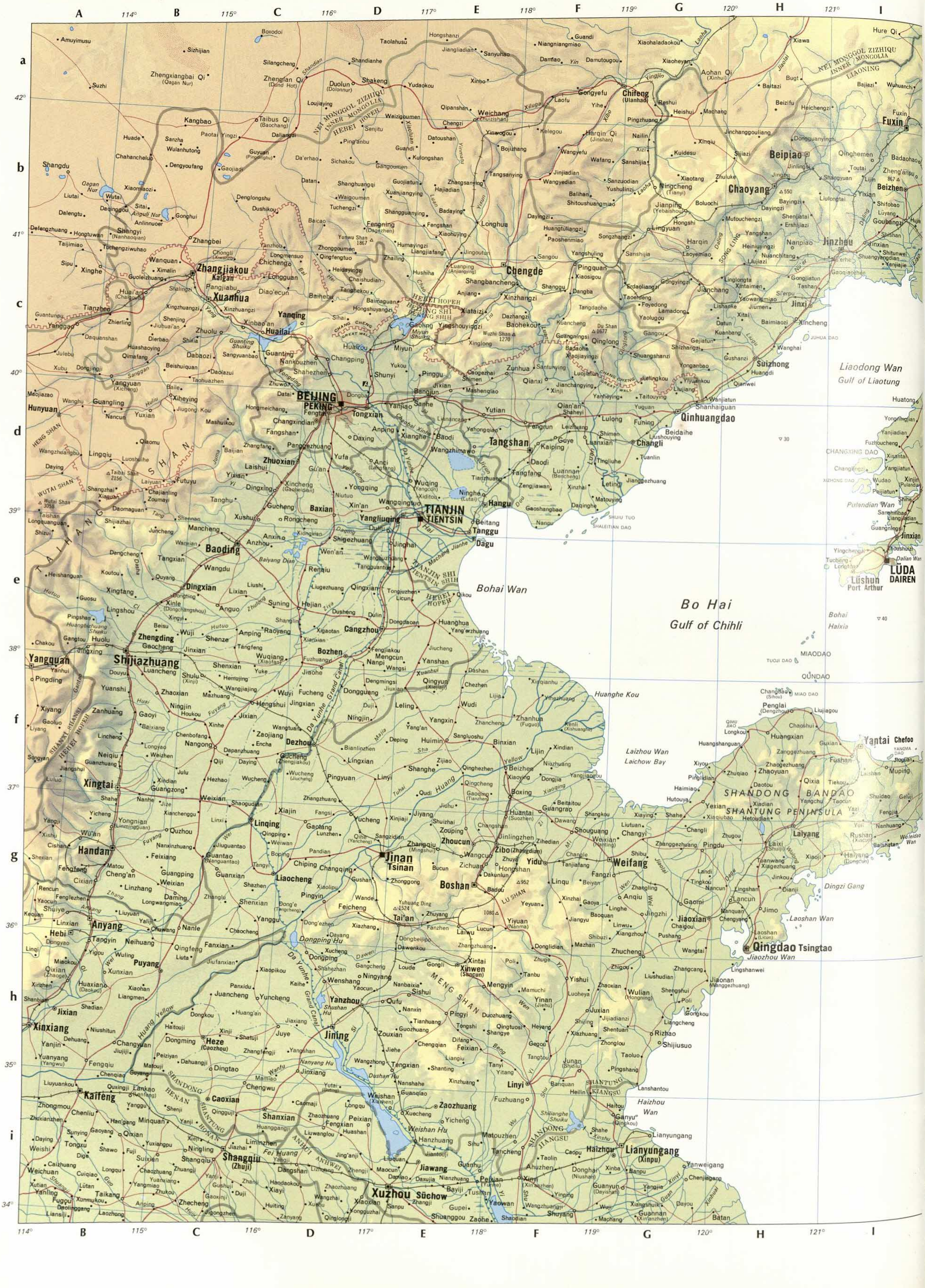
Scale 1:12,000,000

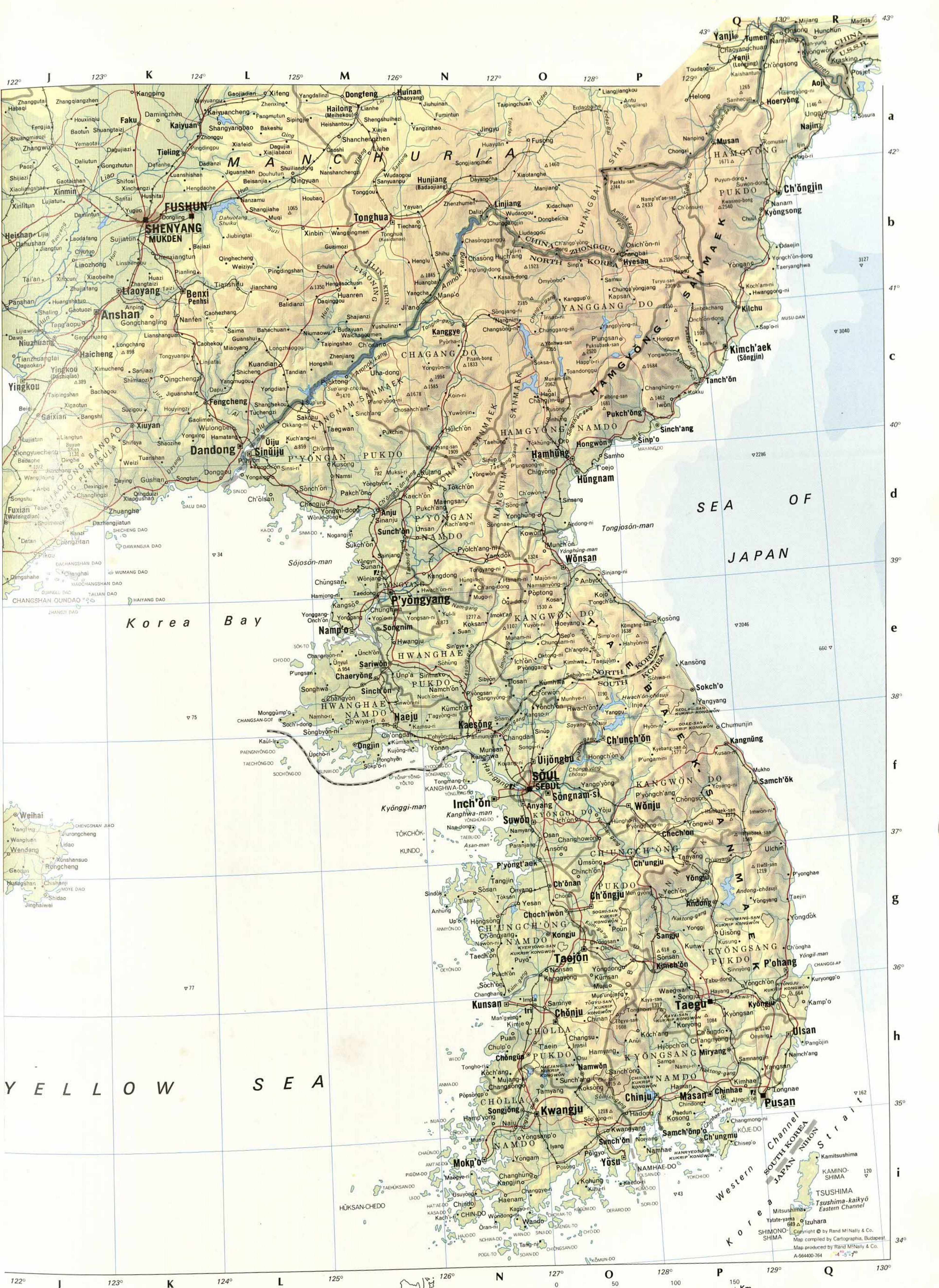
One centimeter represents 120 kilometers.

One inch represents approximately 190 miles.

Lambert Conformal Conic Projection

Northeast China and Korea





Kilometers 0 50 100 150 Km.

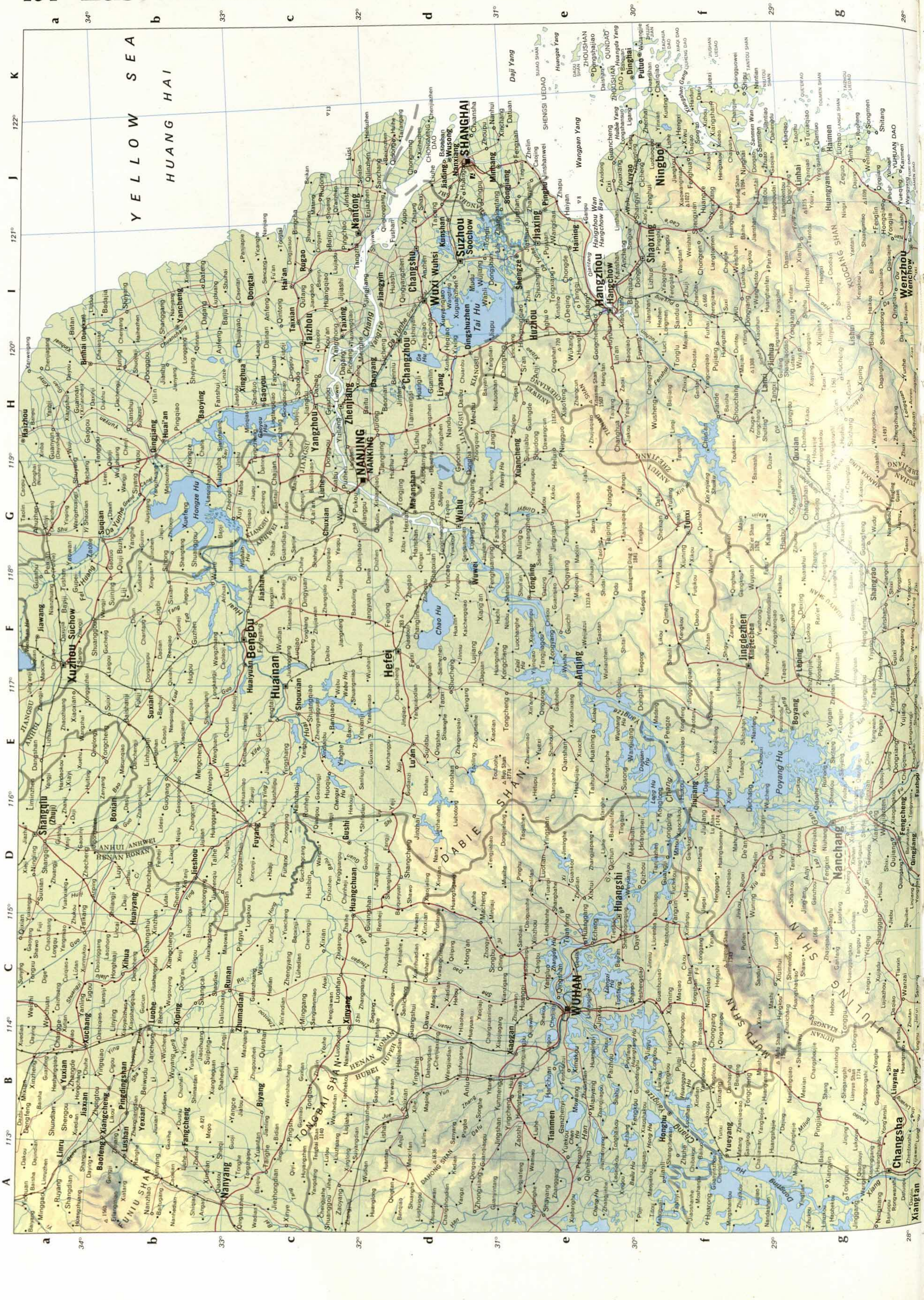
Statute Miles 0 50 100 150 Mi.

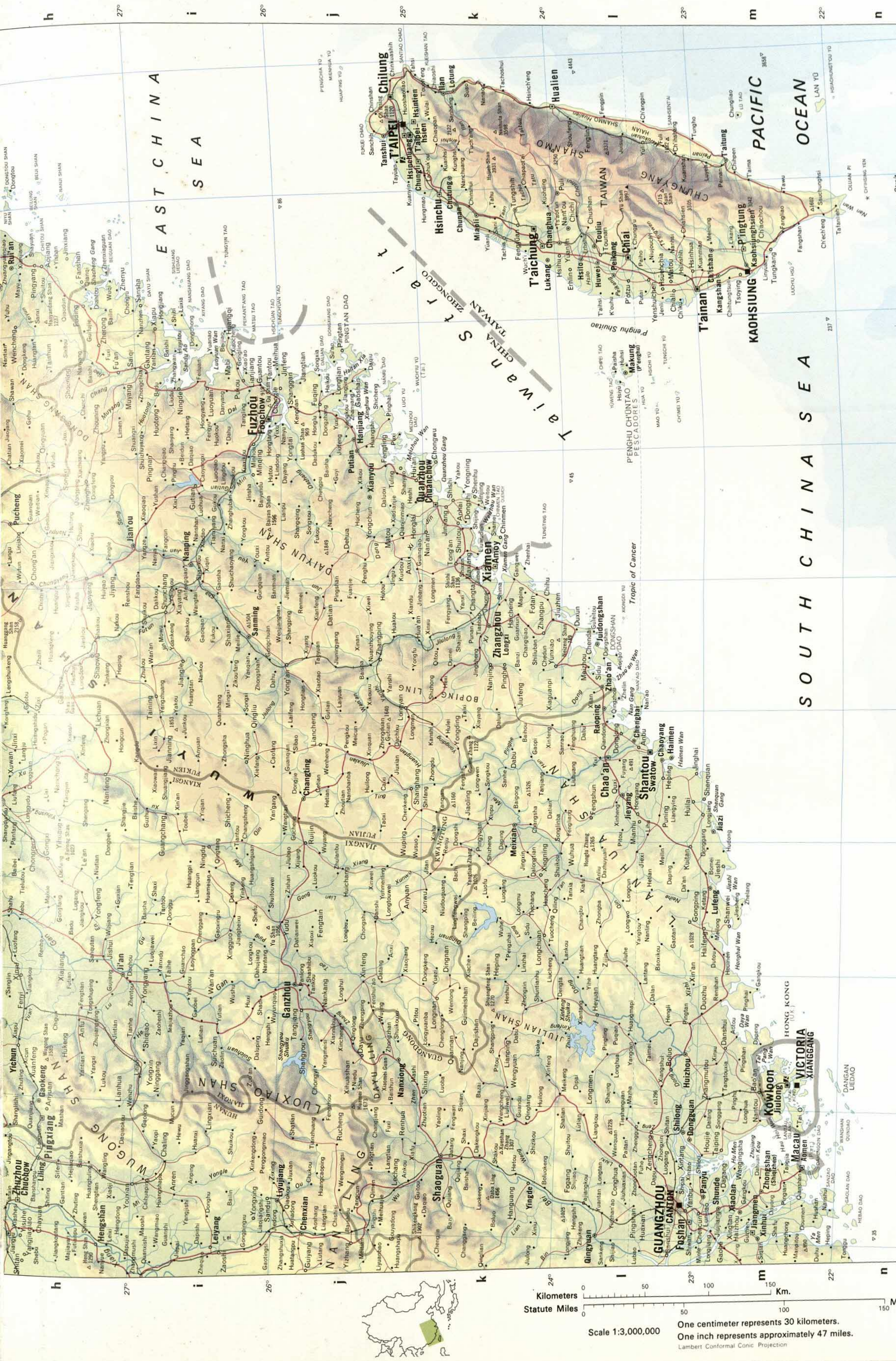
Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

Lambert Conformal Conic Projection

East and Southeast China





Scale 1:3,000,000

One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Lambert Conformal Conic Projection

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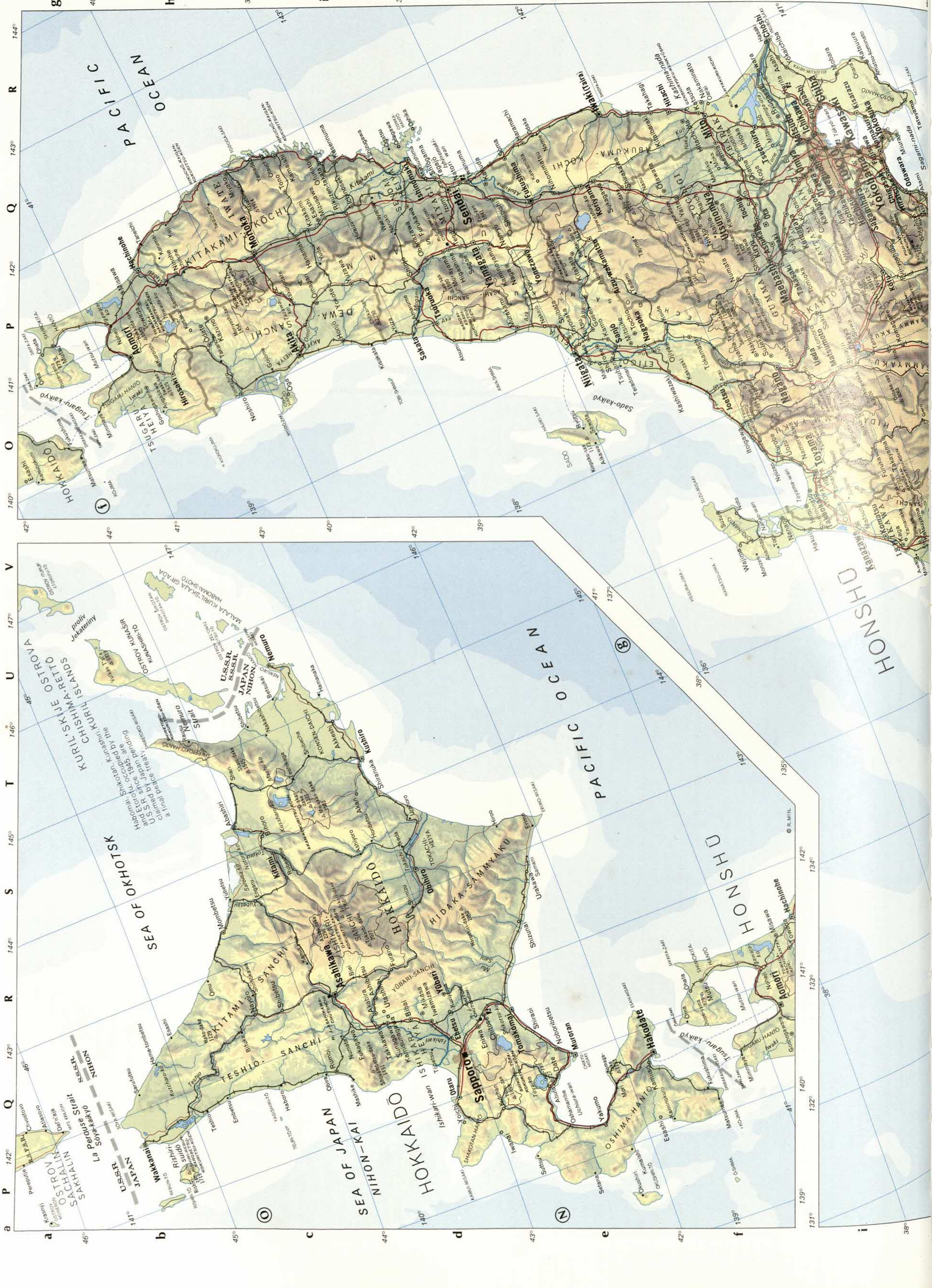
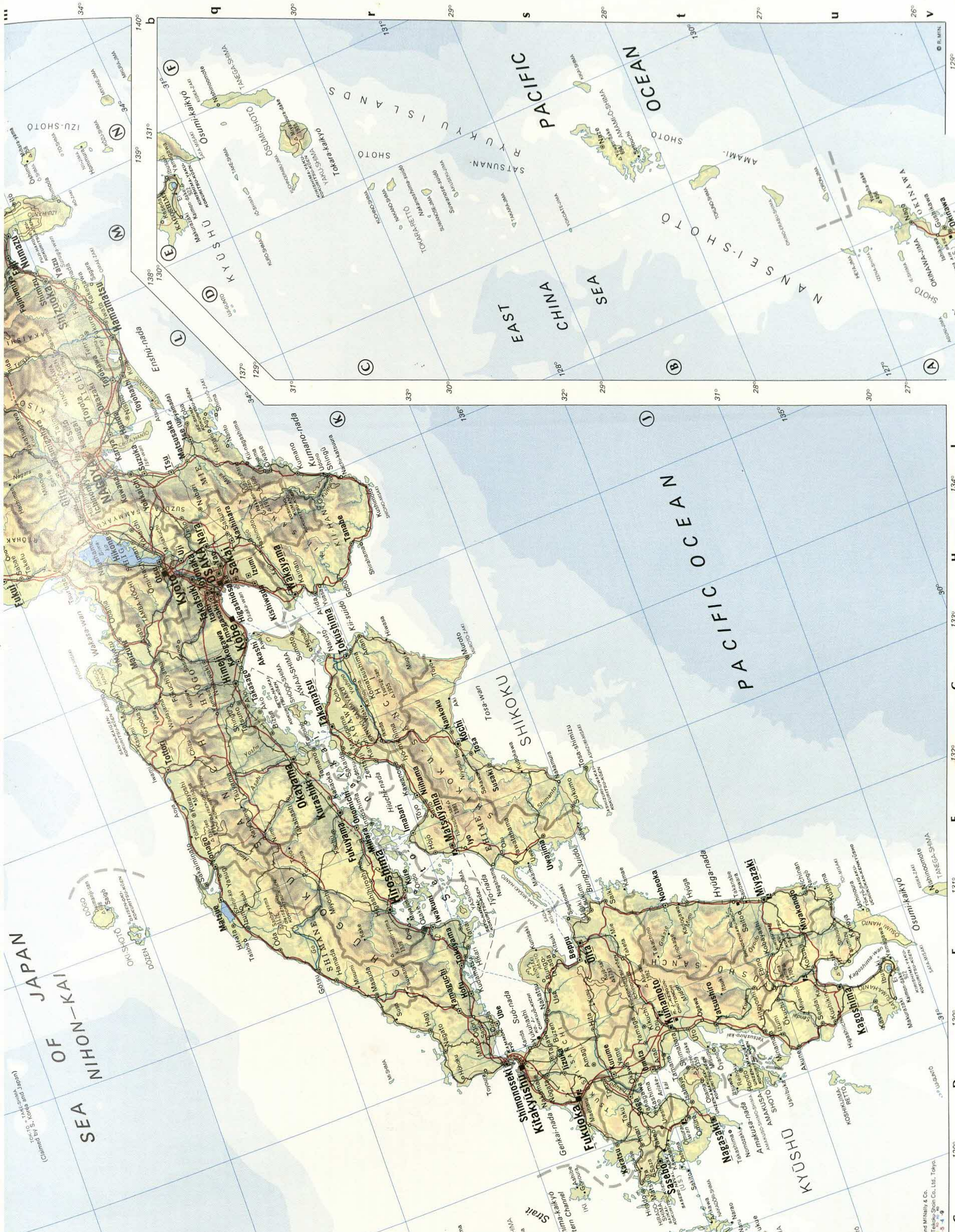
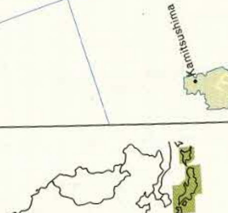
Map compiled by Cartographia, Budapest.
Map produced by Rand McNally & Co.
A-561800-764 -2-5-7-9


PACIFIC OCEAN
HONSHU
Sendai
Aomori
Akita
Morioka
Yamagata
Niigata
Sado-kaikyo
SADO
Tsugaru-kaikyo
HOKKAIDO
Hachinohe
Iwaki (Taira)
Mito
Utsunomiya
Nagano
Toyama
Kanazawa
Yokohama
Kawasaki
Chiba
Choshi
SEA OF OKHOTSK
SEA OF JAPAN
NIHON-KAI
Sapporo
Asahikawa
Hakodate
Muroran
Obihiro
Kushiro
Nemuro
Abashiri
Wakkanai
KURIL'SKIJE OSTROVA
CHISHIMA-RETTO
KURIL ISLANDS
La Perouse Strait
Soya-kaikyo
OSTROV SACHALIN
SAKHALIN
U.S.S.R.
JAPAN
NIHON
Habomai, Shikotan, Kunashiri and Etorofu occupied by the U.S.S.R. since 1945 are claimed by Japan pending a final peace treaty
Nemuro Strait
HIDAKA-SAMMYAKU
KITAMI-SANCHI
TESHIO-SANCHI
ISHIKARI-HEIYA
KITAKAMI-KOCHI
DEWA-SANCHI
OU-SAMMYAKU
ABUKUMA-KOCHI
KANTO-HEIYA
TSUGARU-HEIYA
OSHIMA-HANTO
SHAKOTAN-HANTO
Ishikari-wan
Uchiura-wan
Mutsu-wan
© R. MFN.





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Map prepared by Teikoku-Shoin Co., Ltd., Tokyo.
A-561900-764

Kilometers 0 50 100 150 Km.

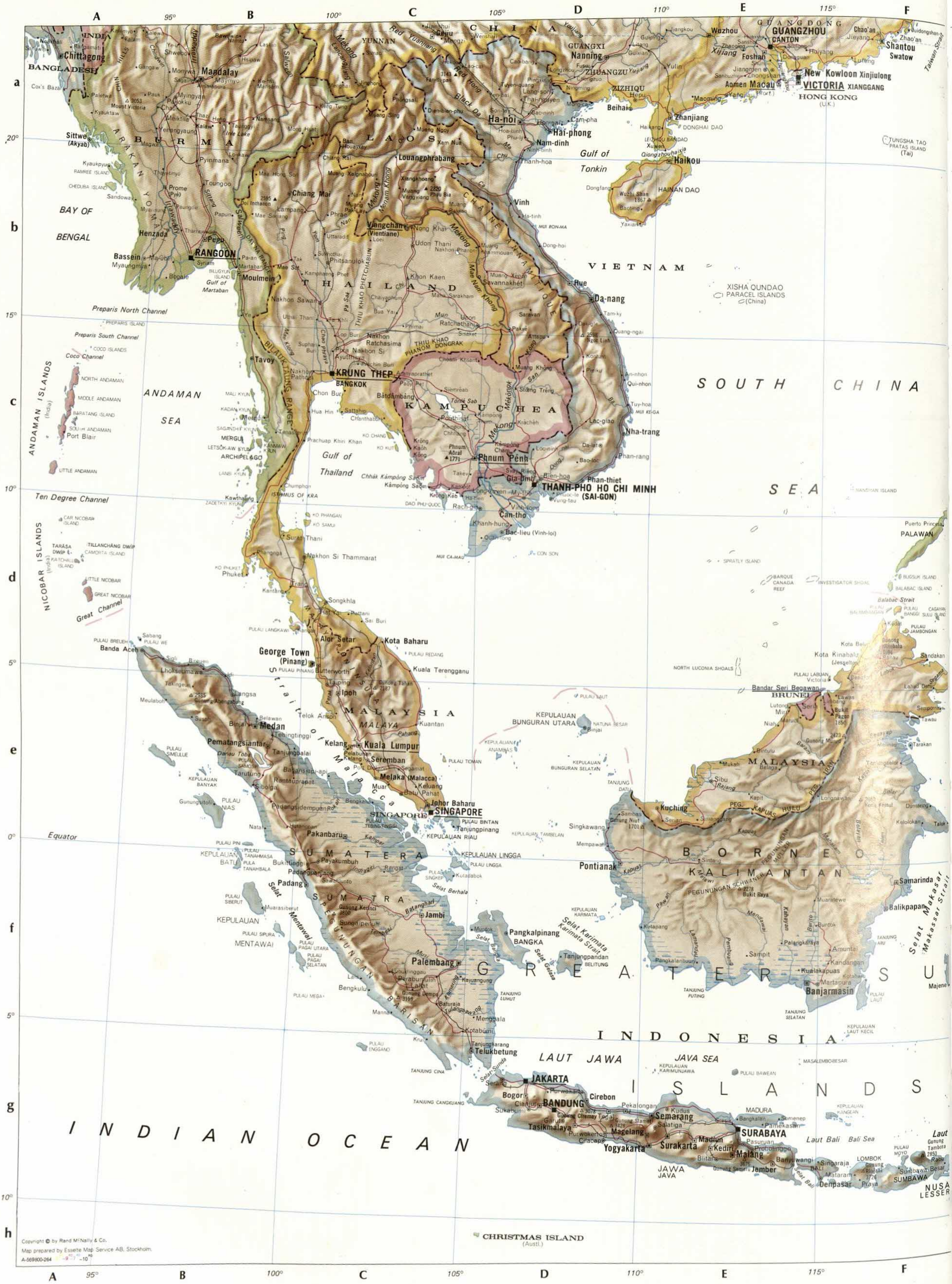
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

Lambert Conformal Conic Projection

Southeast Asia



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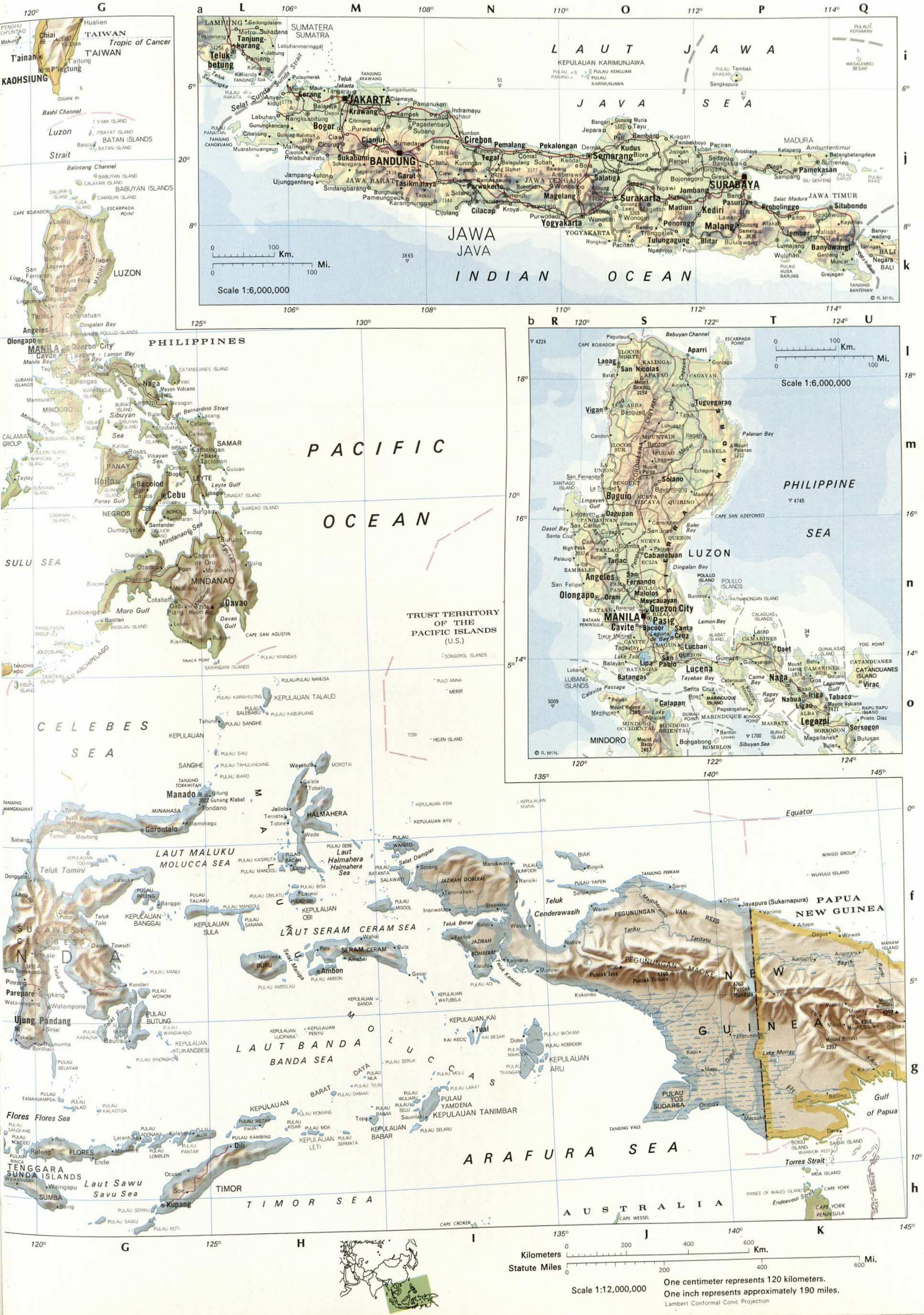
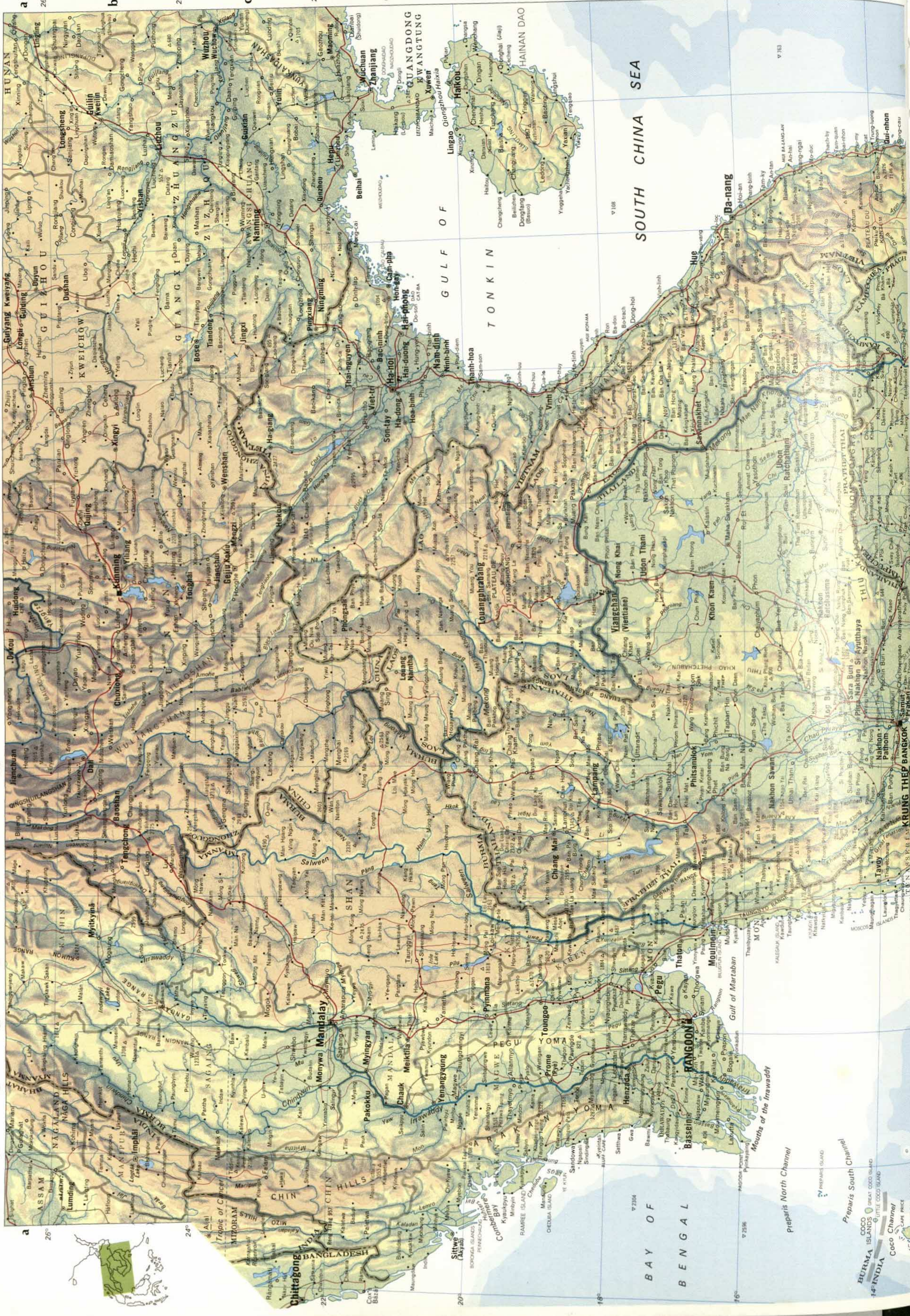
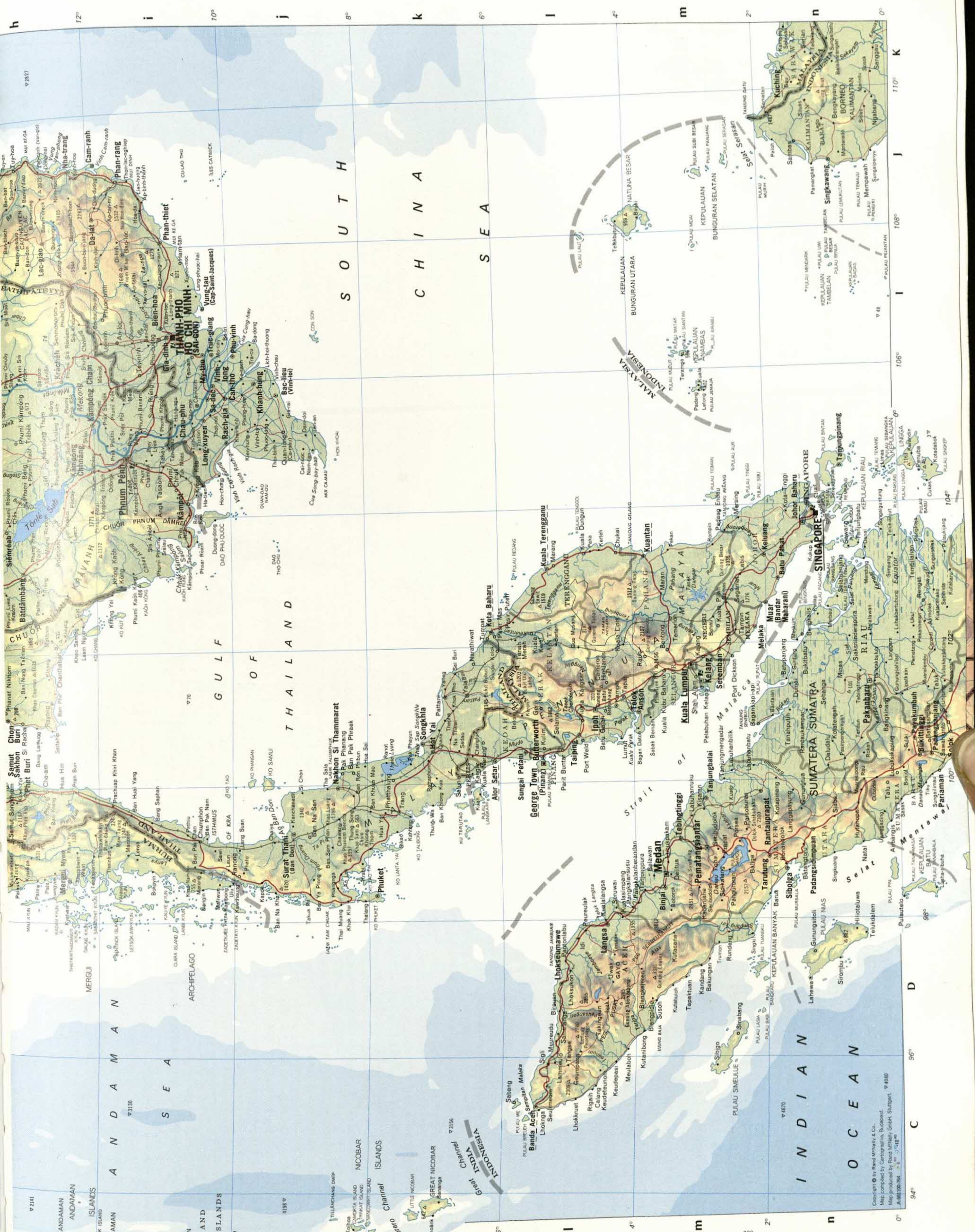
Map prepared by Esselte Map Service AB, Stockholm.
A-569800-264


TAIWAN
T'AIWAN
Tropic of Cancer
KAOHSIUNG
T'ainan
Bashi Channel
Luzon Strait
BATAN ISLANDS
BABUYAN ISLANDS
LUZON
PHILIPPINES
MANILA
Quezon City
SUMATERA
SUMATRA
Tanjungkarang
Selat Sunda
JAKARTA
BANDUNG
Cirebon
Semarang
Surakarta
Yogyakarta
SURABAYA
Malang
MADURA
JAWA TIMUR
JAWA TENGAH
JAWA BARAT
LAUT JAWA
JAVA SEA
JAWA
JAVA
INDIAN OCEAN
BALI
Scale 1:6,000,000
Km.
Mi.
PACIFIC OCEAN
TRUST TERRITORY OF THE PACIFIC ISLANDS (U.S.)
SAMAR
LEYTE
PANAY
NEGROS
Cebu
Bacolod
Iloilo
MINDORO
MINDANAO
Davao
Zamboanga
Sibuyan Sea
Visayan Sea
Mindanao Sea
Moro Gulf
SULU SEA
SULU ARCHIPELAGO
CELEBES SEA
LUZON
PHILIPPINE SEA
Baguio
Legazpi
Naga
Lucena
Batangas
Babuyan Channel
Aparri
Laoag
Vigan
Tuguegarao
Olongapo
Angeles
Cavite
Pasig
SANGIHE
KEPULAUAN TALAUD
Manado
Gorontalo
HALMAHERA
LAUT MALUKU
MOLUCCA SEA
MALUKU
Teluk Tomini
SULAWESI (CELEBES)
INDONESIA
KEPULAUAN BANGGAI
KEPULAUAN SULA
Ujung Pandang
LAUT SERAM
CERAM SEA
SERAM
BURU
Ambon
LAUT BANDA
BANDA SEA
MOLUCCAS
KEPULAUAN KAI
KEPULAUAN ARU
KEPULAUAN TANIMBAR
Flores Sea
FLORES
TENGGARA
LESSER SUNDA ISLANDS
SUMBA
Laut Sawu
Savu Sea
TIMOR
Kupang
Dili
TIMOR SEA
ARAFURA SEA
AUSTRALIA
CAPE YORK PENINSULA
Torres Strait
Gulf of Papua
NEW GUINEA
PAPUA NEW GUINEA
Jayapura (Sukarnapura)
Teluk Cenderawasih
BIAK
Sorong
PEGUNUNGAN MAOKE
Puncak Jaya 5030
Fly
Equator
Kilometers
Statute Miles
Scale 1:12,000,000
One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Lambert Conformal Conic Projection
© R. McN.

Burma, Thailand, and Indochina





Scale 1:6,000,000

One centimeter represents 60 kilometers.

One inch represents approximately 95 miles.

Lambert Conformal Conic Projection

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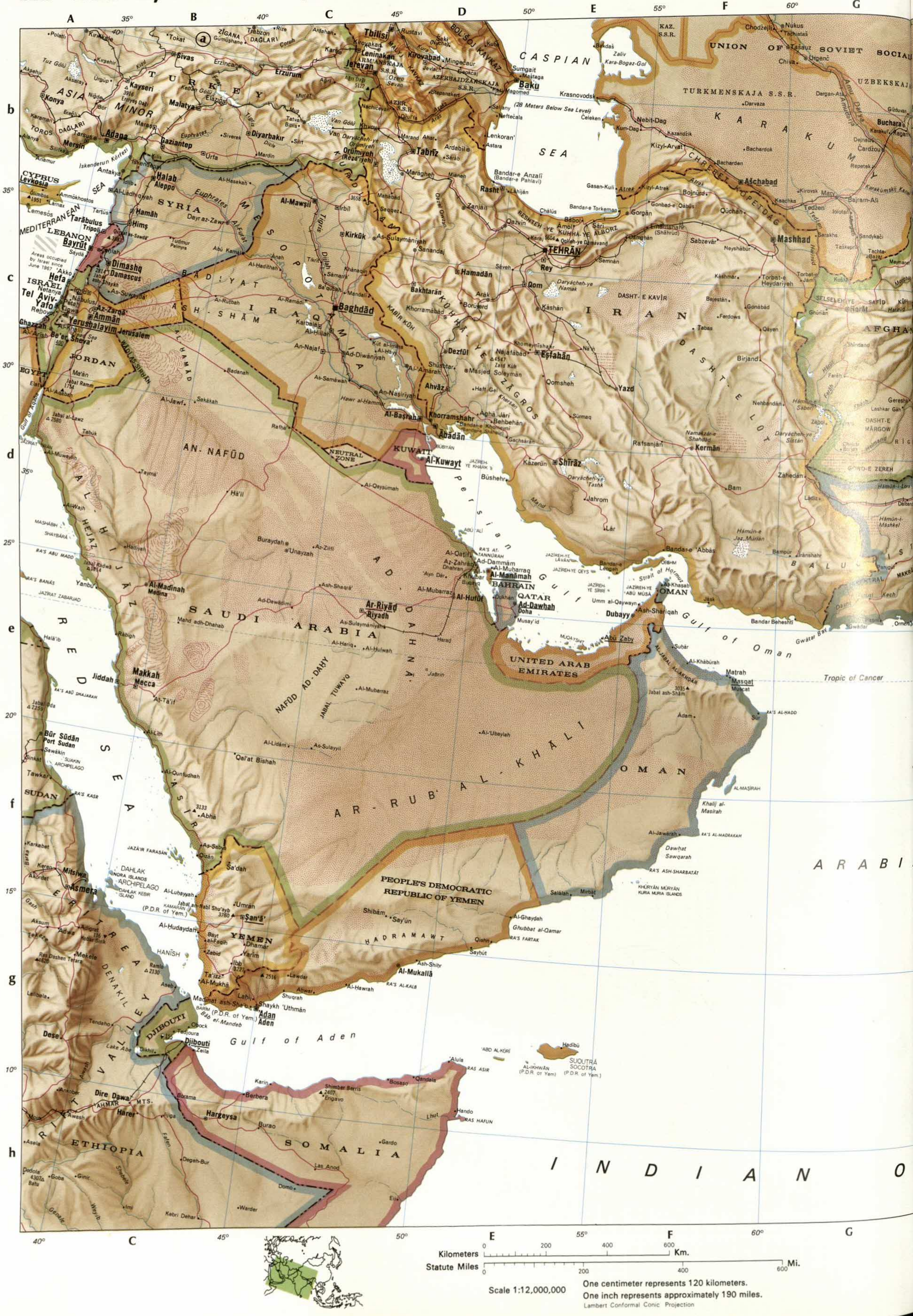
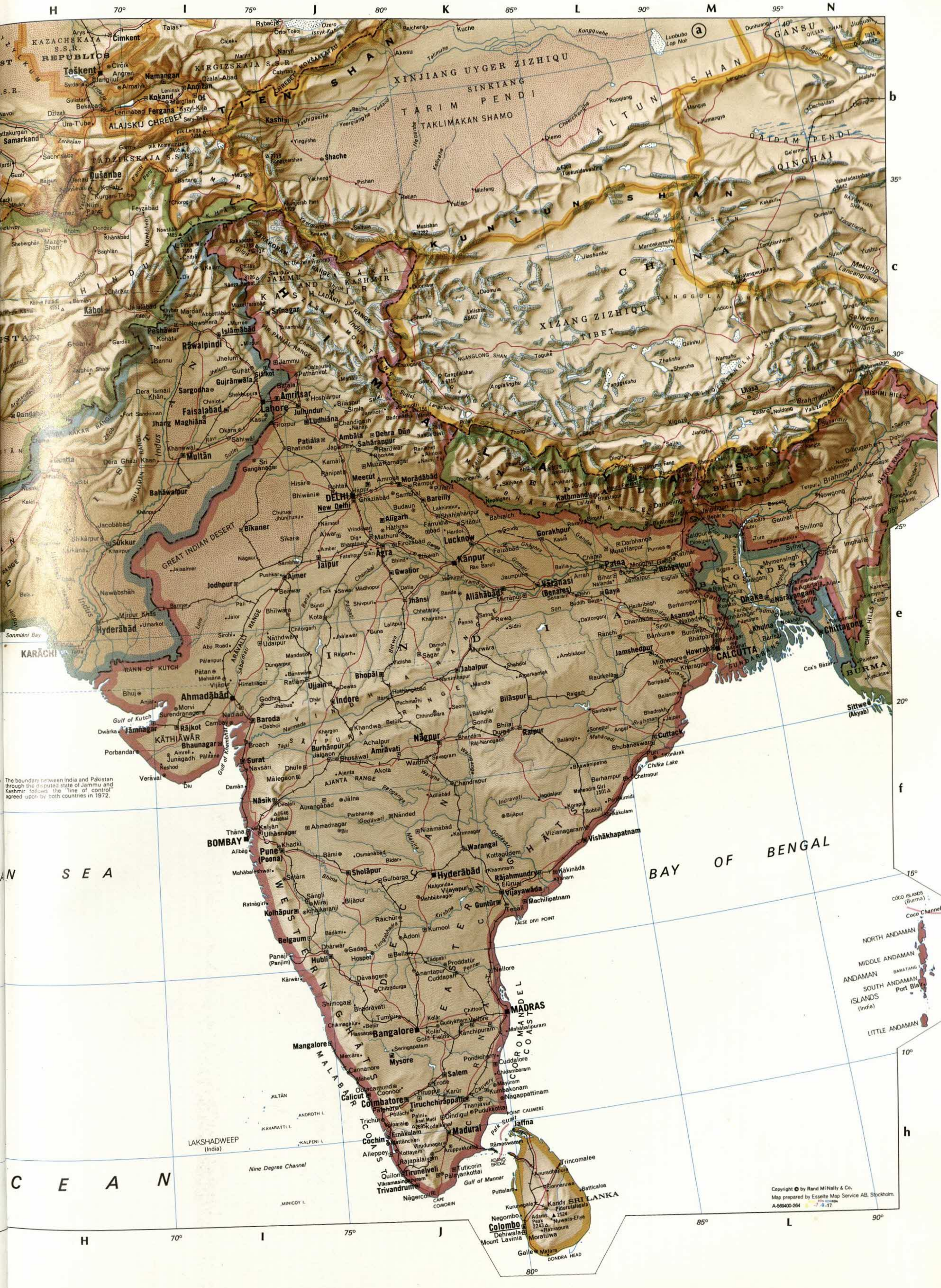
Map compiled by Cartographia, Budapest.
Map produced by Rand McNally GmbH, Stuttgart.
A-561100-764



Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.

Lambert Conformal Conic Projection



The boundary between India and Pakistan through the disputed state of Jammu and Kashmir follows the "line of control" agreed upon by both countries in 1972.

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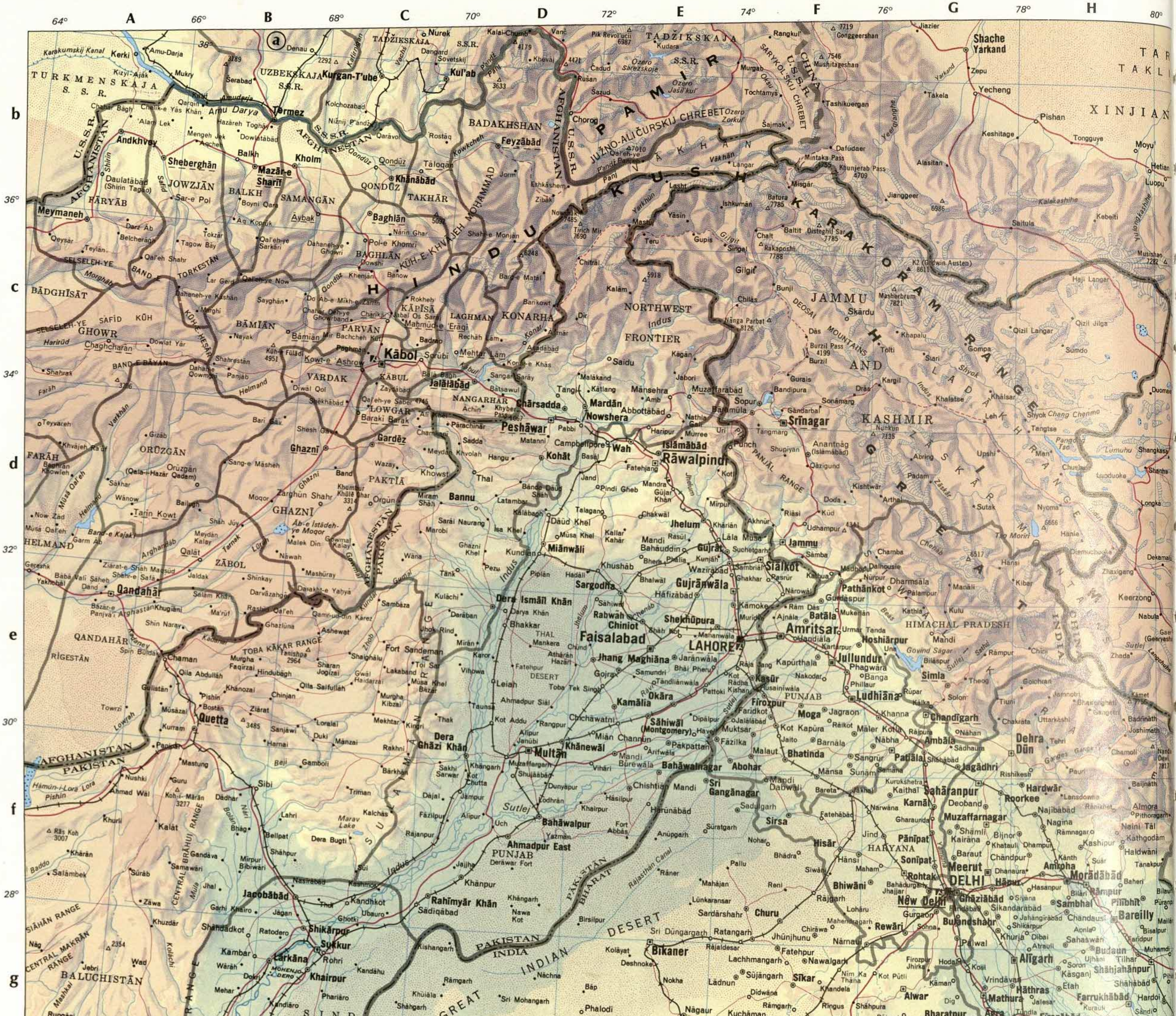
Map prepared by Esselte Map Service AB, Stockholm.
A-569400-264

Northern India and Pakistan



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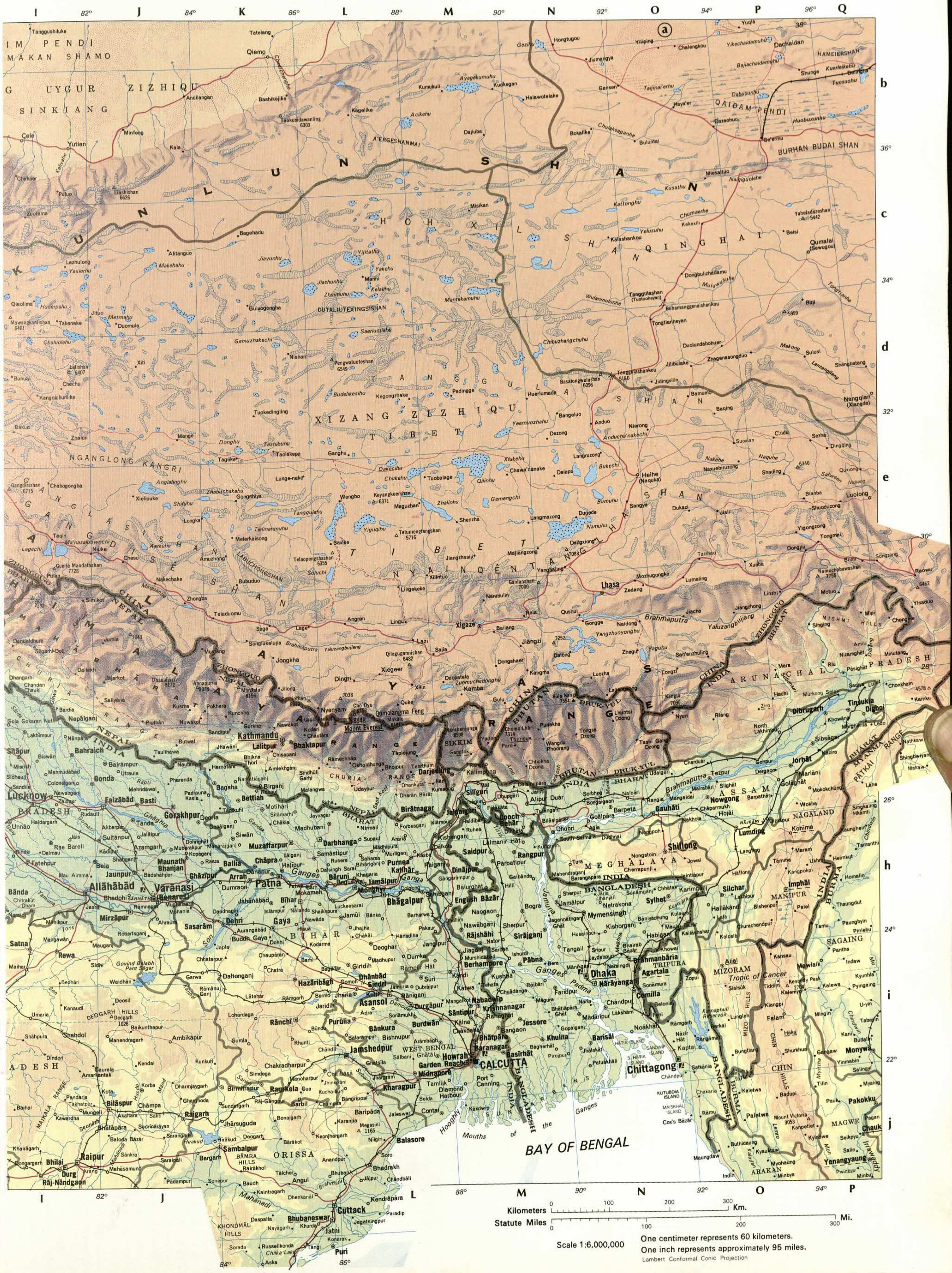
Map prepared by George Philip & Son Ltd, London.
A-565200-764



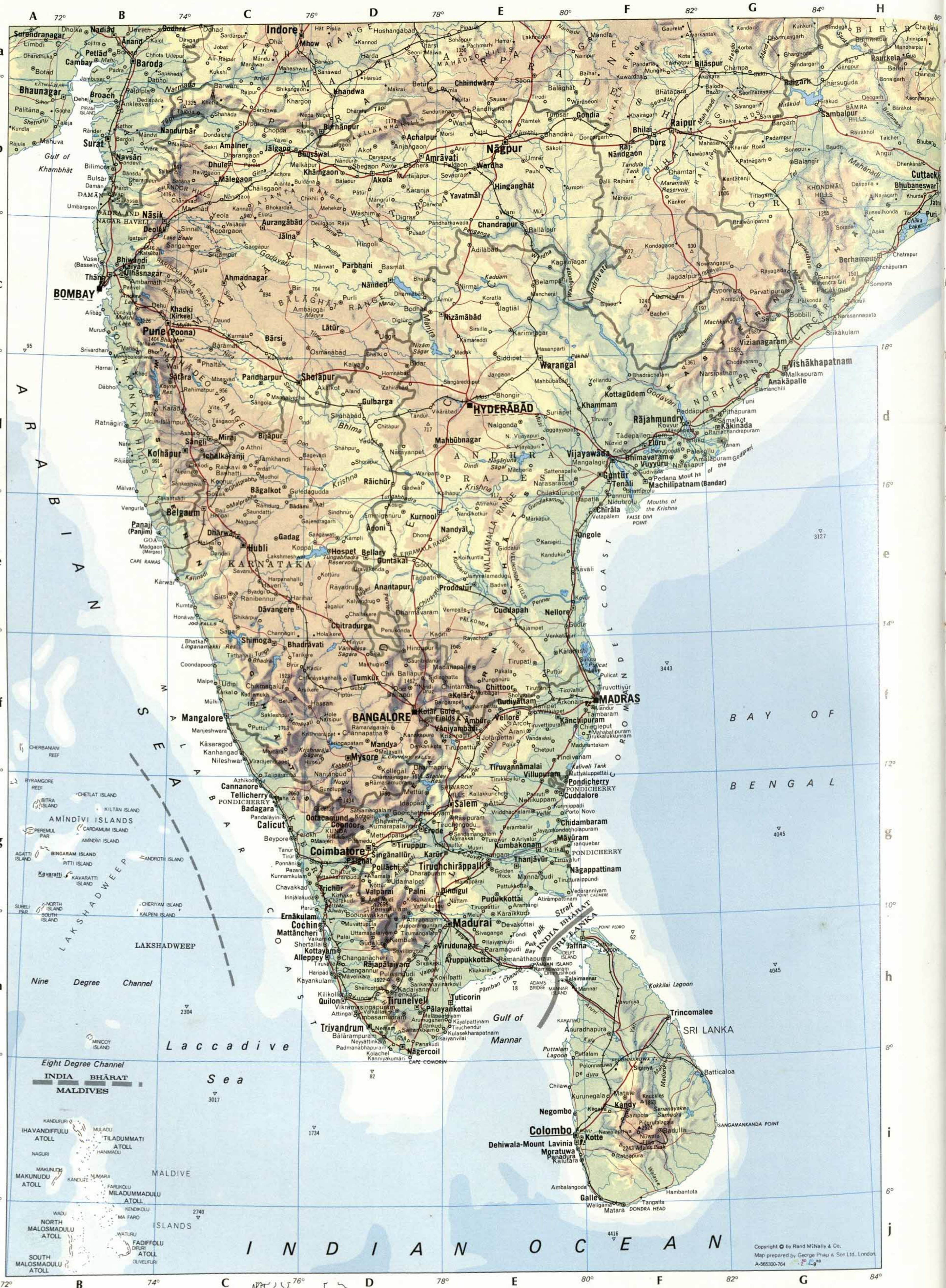
Kilometers 0 100 200 300 Km.

Statute Miles 0 100 200 300 Mi.

Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Lambert Conformal Conic Projection

Southern India and Sri Lanka



Kilometers 0 100 200 300 Km.

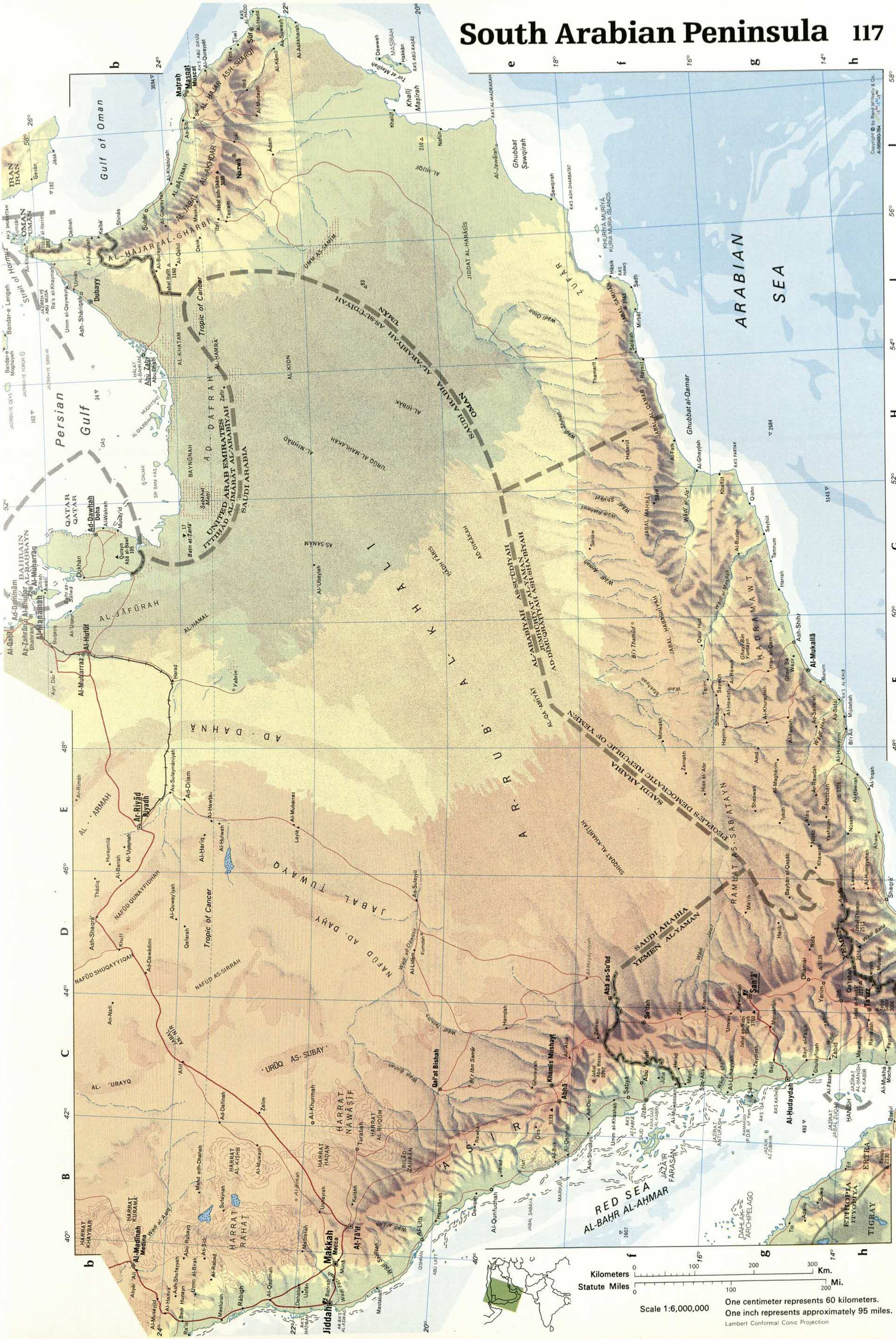
Statute Miles 0 100 200 300 Mi.

Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.

Lambert Conformal Conic Projection

South Arabian Peninsula

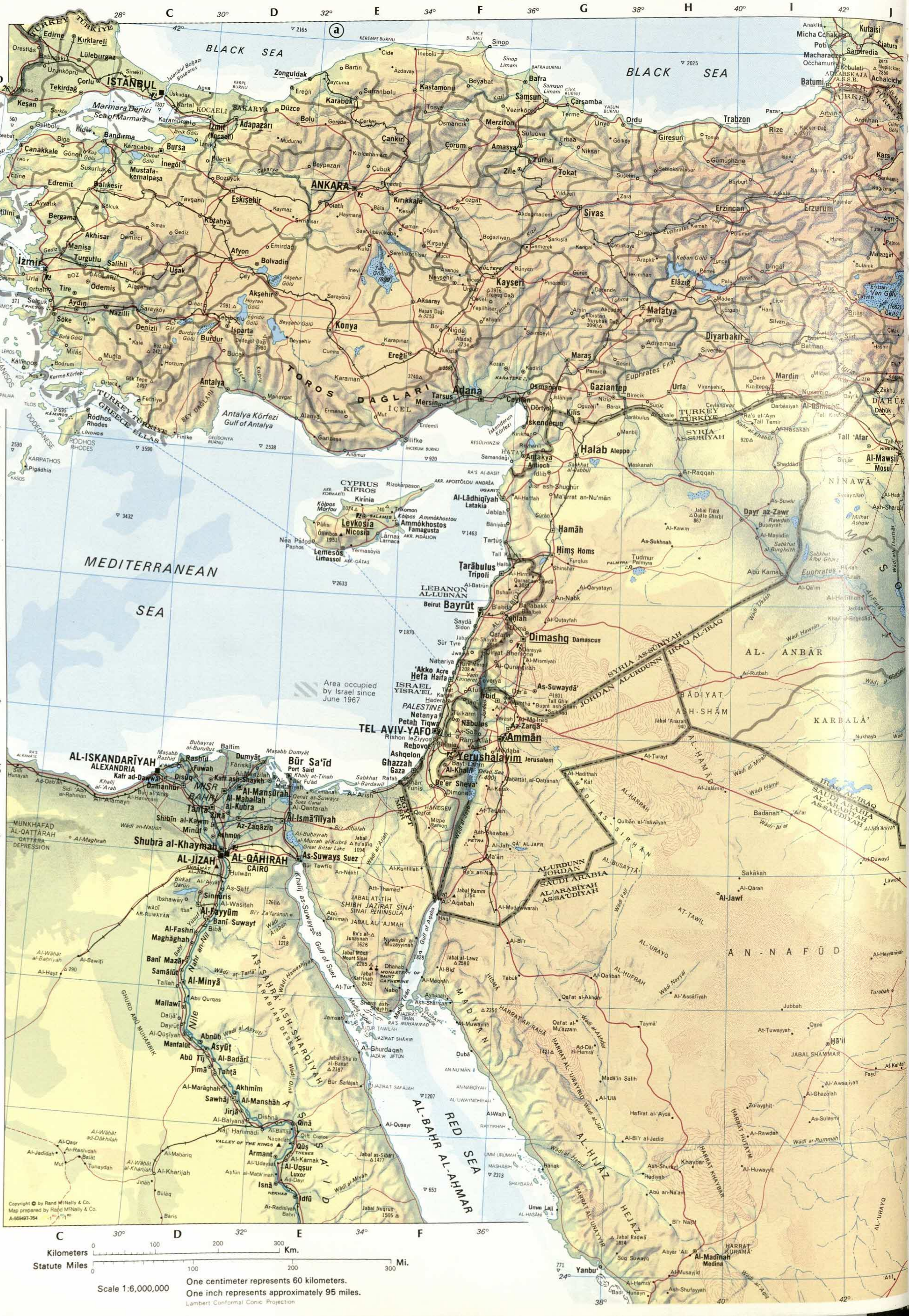


Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.

Lambert Conformal Conic Projection

The Middle East

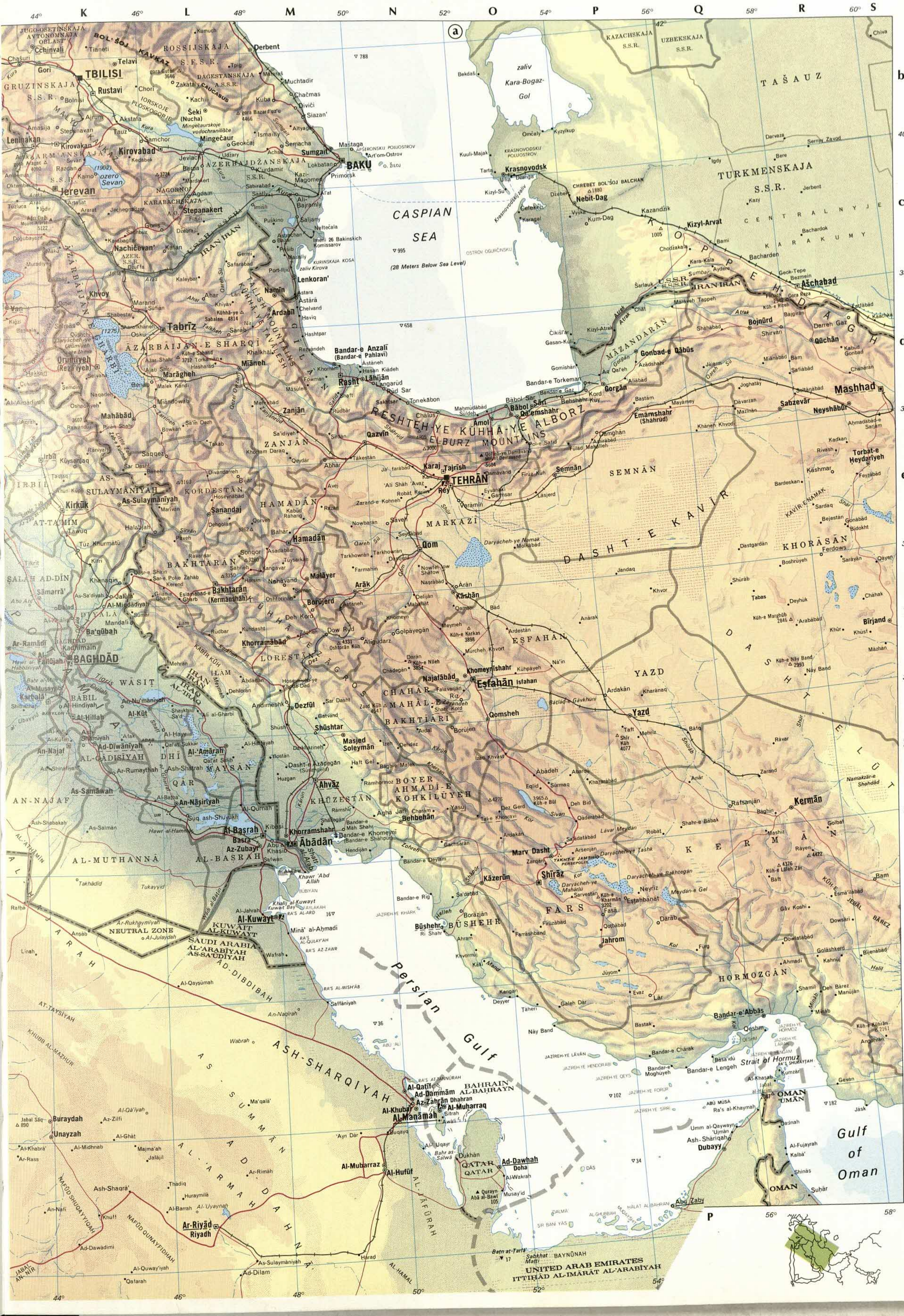


Kilometers 0 100 200 300 Km.

Statute Miles 0 100 200 300 Mi.

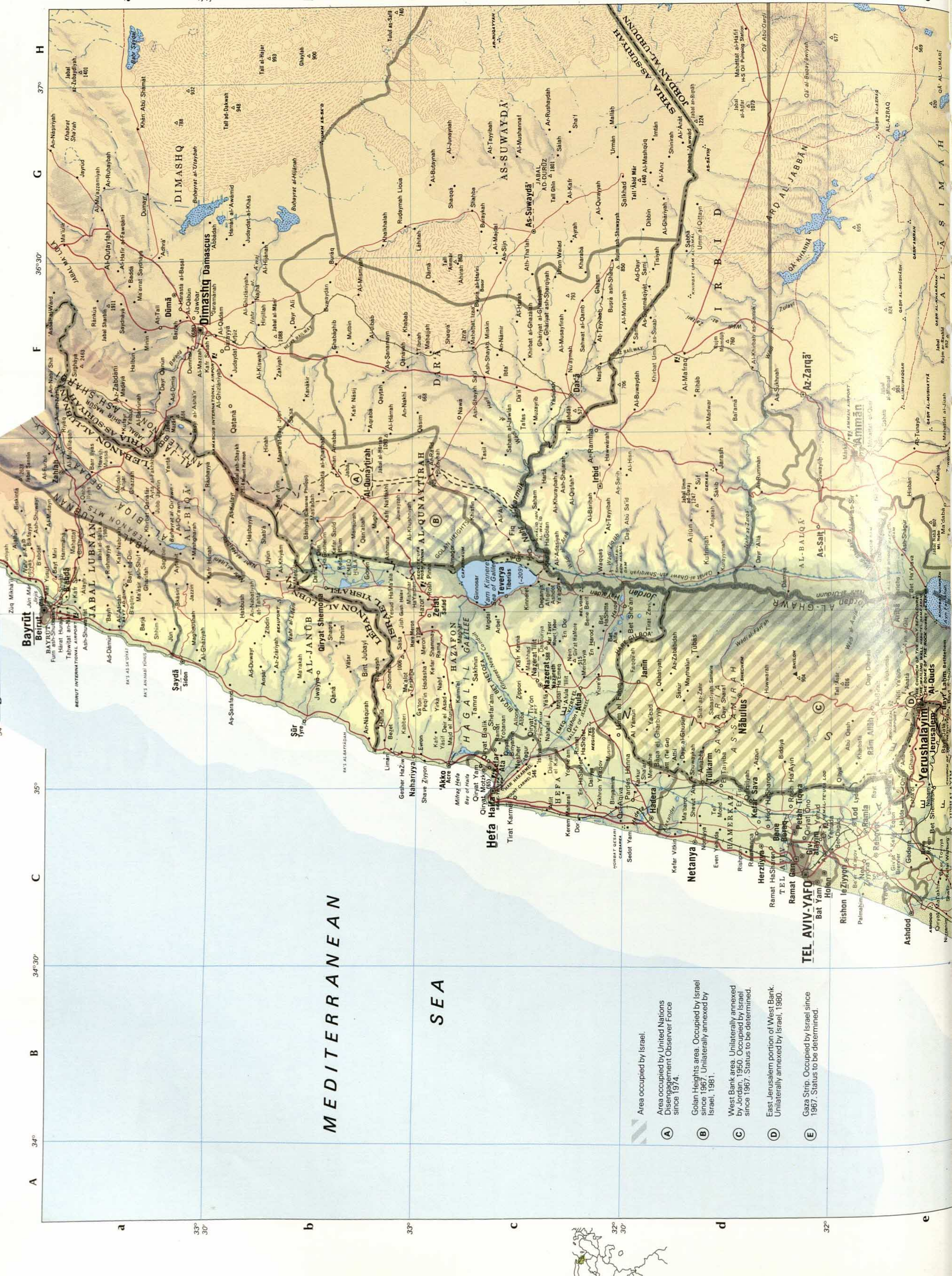
Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Lambert Conformal Conic Projection



44°
K
46°
L
48°
M
50°
N
52°
O
54°
P
56°
Q
58°
R
60°
S
b
c
d
e
f
g
h
i
j
40°
38°
36°
34°
32°
30°
28°
26°
42°
ⓐ
JUGO-OSETINSKAJA AVTONOMNAJA OBLAST'
Cchinvali
BOL'ŠOJ KAVKAZ
ROSSIJSKAJA S.F.S.R.
Derbent
DAGESTANSKAJA A.S.S.R.
CAUCASUS
TBILISI
Gori
Telavi
Rustavi
GRUZINSKAJA S.S.R.
Bolnisi
Zakataly
Šeki (Nucha)
Mingečaurskoje vodochranilišče
Mingečaur
Kuba
Siazan'
Sumgait
BAKU
Mastaga
APŠERONSKIJ POLUOSTROV
Art'om-Ostrov
O. ŽILOJ
Primorsk
Leninakan
Kirovakan
ARMJANSKAJA S.S.R.
Kirovabad
Kedabek
AZERBAJDŽANSKAJA S.S.R.
Jevlach
Barda
Kurdamir
Kazi-Magomed
ozero Sevan
Jerevan
Stepanakert
Ararat
NAGORNO-KARABACHSKAJA
Agdam
Ali-Bajramly
Saljany
Neftečala
Imeni 26 Bakinskich Komissarov
Puškino
Astrachan-Bazar
Nachičevan'
Kafan
Ordubad
AZER. S.S.R.
Džul'fa
Lenkoran'
Astara
KURINSKAJA KOSA
zaliv Kirova
Port-Il'ič
Bekdaš
zaliv Kara-Bogaz-Gol
KAZACHSKAJA S.S.R.
UZBEKSKAJA S.S.R.
TAŠAUZ
Chiva
Omčaly
Kyzylkup
KRASNOVODSKIJ POLUOSTROV
Kuuli-Majak
Krasnovodsk
Ufra
Džanga
Tarta
Kizyl-Su
Krasnovodskij zaliv
CHREBET BOL'ŠOJ BALCHAN
Nebit-Dag
Dženeb
Vyška
Kum-Dag
Čeleken
Karagel
Darvaza
Sernyj Zavod
Bere
Igdy
TURKMENSKAJA S.S.R.
Jerbent
Kazy
CENTRAL'NYJE KARAKUMY
Bachardok
Kazandžik
Kizyl-Arvat
Bami
Bacharden
Chodžakala
Kara-Kala
Sumbar
Ajdere
KOPPEH DAGH
Geok-Tepe
Bezmein
Aschabad
CASPIAN SEA
(28 Meters Below Sea Level)
OSTROV OGURČINSKIJ
▽ 788
▽ 995
▽ 658
Šarlauk
U.S.S.R.
IRAN
Atrak
Čat
Čikišljar
Gasan-Kuli
Kizyl-Atrek
Bojnūrd
Shīrvān
Qūchān
Dargaz
Kabud Gonbad
Chenārān
Mashhad
Neyshābūr
Sabzevār
Torbat-e Heydarīyeh
Kāshmar
MĀZANDARĀN
Gonbad-e Qābūs
Gorgān
Bandar-e Torkeman
Gomīshān
Behshahr
Sārī
Bābol
Bābol Sar
Qā'emshahr
Āmol
Chālūs
Tonekābon
Rāmsar
RESHTEH-YE KŪHHA-YE ALBORZ
ELBURZ MOUNTAINS
Damāvand
Qolleh-ye Damāvand 5604
Dāmghān
Shāhrūd
Emāmshahr (Shāhrūd)
Semnān
SEMNĀN
DASHT-E KAVĪR
Bastām
Mayāmey
TEHRĀN
Karaj
Tajrīsh
Rey
Varāmīn
Garmsar
Fīrūz Kūh
Qazvīn
Ābyek
Tākestān
Rasht
Bandar-e Anzalī (Bandar-e Pahlavī)
Lāhījān
Langarūd
Fowman
GĪLĀN
Rūdbār
Manjīl
TĀLESH MOUNTAINS
KŪHHA-YE TĀLESH
Ardabīl
Namīn
Āstārā
Sar'eyn
Meshgīn Shahr
Ahar
Khvoy
Mākū
Marand
Tabrīz
Sarāb
Mīāneh
Marāgheh
Bonāb
Urūmīyeh (Rezā'īyeh)
Daryācheh-ye Orūmīyeh
ĀZARBĀIJĀN-E SHARQĪ
ĀZARBĀIJĀN-E GHARBĪ
Salmās
Mahābād
Saqqez
Bāneh
Sardasht
Zanjān
ZANJĀN
Bījār
KORDESTĀN
Sanandaj
Marīvān
HAMADĀN
Hamadān
Malāyer
Asadābād
Kangāvar
BAKHTARĀN
Bakhtarān (Kermānshāh)
Eslāmābād-e Gharb
Qasr-e Shīrīn
Sar-e Pol-e Zahāb
Īlām
ĪLĀM
Mehrān
Dehlorān
Khorramābād
LORESTĀN
Borūjerd
Nahāvand
Arāk
MARKAZĪ
Qom
Sāveh
Daryācheh-ye Namak
Kāshān
Natanz
Golpāyegān
Khomeyn
Khomeynīshahr
Najafābād
Esfahān
EŞFAHĀN
Shahr-e Kord
CHAHĀR MAHĀL-E BAKHTĪĀRĪ
Borūjen
Shahreza (Qomsheh)
Nā'īn
Ardakān
YAZD
Yazd
Taft
Mehrīz
Bāfq
Abarqū
Dezfūl
Shūshtar
Andīmeshk
Masjed Soleymān
Ahvāz
KHŪZESTĀN
Haft Gel
Behbehān
Rāmhormoz
BOYER AHMADĪ-E KOHKĪLŪYEH
Yāsūj
Khorramshahr
Ābādān
Bandar-e Khomeynī
Bandar-e Shāhpūr
Hendījān
Bandar-e Deylam
Gachsārān
Kāzerūn
Shīrāz
TAKHT-E JAMSHĪD PERSEPOLIS
Marv Dasht
Daryācheh-ye Tashk
Daryācheh-ye Bakhtegān
Daryācheh-ye Mahārlū
Neyrīz
Estahbānāt
Fasā
Jahrom
Fīrūzābād
FĀRS
Dārāb
Būshehr
BŪSHEHR
Bandar-e Rīg
Borāzjān
Khvormūj
Kangān
Lār
Evaz
Gāleh Dār
Bandar-e Lengeh
Bandar-e Chārak
Bandar-e 'Abbās
HORMOZGĀN
Mīnāb
JAZĪREH-YE QESHM
Qeshm
JAZĪREH-YE HORMOZ
JAZĪREH-YE LĀRAK
Strait of Hormuz
Kermān
KERMĀN
Rafsanjān
Zarand
Bāft
Sīrjān
Jīroft
Bam
Kūh-e Lālēh Zār 4376
KŪH-E JEBĀL BĀREZ
Tabas
Khvor
Jandaq
Ferdows
Gonābād
Bīrjand
Qāyen
KHORĀSĀN
DASHT-E LŪT
Shahdād
Ravar
Anār
Kūh-e Marghūb 2846
Kūh-e Nāy Band 2993
Nāy Band
Chāhak
Khūsf
Mazhān
Sarāyān
Bejestān
Boshrūyeh
Dastgardān
Shūrāb
Deyhūk
Kūh-e Karkas 3898
Zard Kūh 4547
Kūh-e Dīnār 4276
Shīr Kūh 4077
Kūh-e Būl 3965
Kūh-e Khormān 3202
Kūh-e Shāh 2161
Basra
Al-Basrah
Az-Zubayr
AL-BASRAH
Abū al-Khaṣīb
Safwān
Khawr 'Abd Allāh
BŪBIYĀN
Al-Kuwayt
KUWAIT AL-KUWAYT
Al-Jahrah
Mīnā' al-Aḥmadī
RA'S AL-ARḌ
NEUTRAL ZONE
Ar-Rukhaymīyah
Al-Julaydah
SAUDI ARABIA AL-'ARABIYAH AS-SA'ŪDIYAH
Wafrah
RA'S AZ-ZAWR
AD-DIBDIBAH
Al-Qayṣūmah
RA'S AL-MISH'ĀB
Saffānīyah
An-Nagīrah
AT-TAYSĪYAH
Wabrah
ASH-SHARQĪYAH
Abū 'Alī
RA'S AT-TANNŪRAH
Al-Qaṭīf
Ad-Dammām
Az-Zahrān Dhahran
Al-Khubar
Al-Manāmah
Al-Muḥarraq
BAHRAIN AL-BAḤRAYN
Sitrah
'Awālī
Buqayq
Al-Mubarraz
Al-Hufūf
Al-'Uqayr
Bahr as-Salwā
Dukhān
QATAR
Ad-Dawhah Doha
Al-Wakrah
Umm Sa'īd
Qurayn Abū al-Bawl 105
Persian Gulf
DĀS
DALMĀ
SIR BANI YAS
AL-GHUBBAH
HĀLAT AL-BAHRĀNĪ
Abū Ẓaby
Dubayy
Ash-Shāriqah
'Ujmān
Umm al-Qaywayn
Ra's al-Khaymah
ABŪ MŪSĀ
JAZĪREH-YE SĪRRĪ
JAZĪREH-YE FORŪR
JAZĪREH-YE QEYS
JAZĪREH-YE HENDORĀBĪ
JAZĪREH-YE LĀVĀN
JAZĪREH-YE KHĀRK
Al-Fujayrah
Kalbā'
OMAN 'UMĀN
Khasab
Shināṣ
Ṣuḥār
Gulf of Oman
Jāsk
Gevān
▽ 36
▽ 102
▽ 34
▽ 182
Sabkhat Maṭṭī
BAYNŪNAH
UNITED ARAB EMIRATES ITTIḤĀD AL-IMĀRĀT AL-'ARABĪYAH
Baṭn aṭ-Ṭarfā'
AS-SUMMĀN
AD-DAHNĀ
AL-JĀFŪRAH
AL-'ARAMAH
Ar-Riyāḍ Riyadh
Al-Kharj
Ḥaraḍ
AL-HAMAL
As-Sulaymānīyah
Ad-Dilam
Al-Quway'īyah
Qaṭarah
JABAL AN-NĪR
Ad-Dawādimī
Al-Khuff
NAFŪD QUNAYFIDHAH
NAFŪD SHUQAYYIQAH
Ash-Shaqrā'
Thādiq
Huraymilā
Al-Barrah
Al-'Uyaynah
Buraydah
'Unayzah
Al-Midhnab
Ar-Rass
Al-Khabrā'
Majma'ah
Jalājil
Az-Zilfī
Al-Ghāṭ
Ar-Rimāḥ
Ma'qalā'
'Ayn Dār
Jabal Sāq 890
KHUBB AL-MAZHUR
AL-BAṬIN
Linah
Anṣāb
AL-ḤAJARAH
Rafḥā'
Takhādīd
Tukayyid
AL-MUTHANNĀ
AN-NAJAF
Ash-Shabakah
As-Salmān
An-Najaf
Karbalā'
Al-Kūfah
Ad-Dīwānīyah
AL-QĀDISĪYAH
Ar-Rumaythah
As-Samāwah
An-Nāṣirīyah
DHĪ QĀR
Al-'Amārah
MAYSĀN
Qal'at Sukkar
Qal'at Sāliḥ
Al-Qurnah
Sūq ash-Shuyūkh
Hawr al-Ḥammār
Al-Kūt
WĀSIṬ
Al-Ḥillah
BĀBIL
Al-Hindīyah
Tigris
Euphrates
BAGHDĀD
Al-Fallūjah
Ba'qūbah
Khānaqīn
DIYĀLĀ
Mandalī
Sāmarrā'
ṢALĀḤ AD-DĪN
Tikrīt
Kirkūk
AT-TA'MĪM
As-Sulaymānīyah
AS-SULAYMĀNĪYAH
Irbīl
IRBĪL
Rawāndūz
Ṭawuq
Ṭūz Khurmātū
Van
Doğubayazıt
Iğdır
Ağrı Dağı 5122

Israel and Southern Lebanon



▨ Area occupied by Israel.

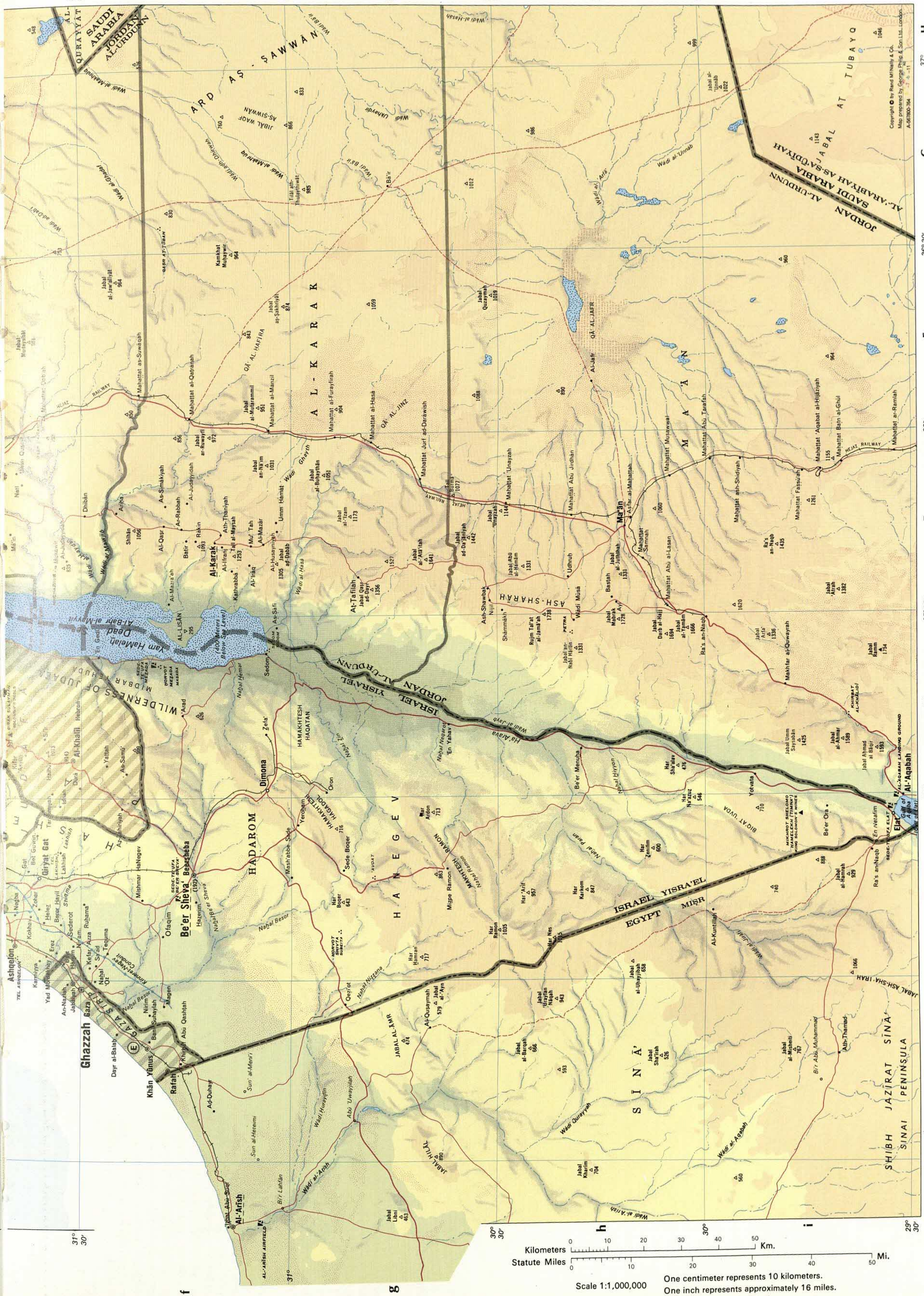
Ⓐ Area occupied by United Nations Disengagement Observer Force since 1974.

Ⓑ Golan Heights area. Occupied by Israel since 1967. Unilaterally annexed by Israel, 1981.

Ⓒ West Bank area. Unilaterally annexed by Jordan, 1950. Occupied by Israel since 1967. Status to be determined.

Ⓓ East Jerusalem portion of West Bank. Unilaterally annexed by Israel, 1980.

Ⓔ Gaza Strip. Occupied by Israel since 1967. Status to be determined.



Kilometers 0 10 20 30 40 50 Km.

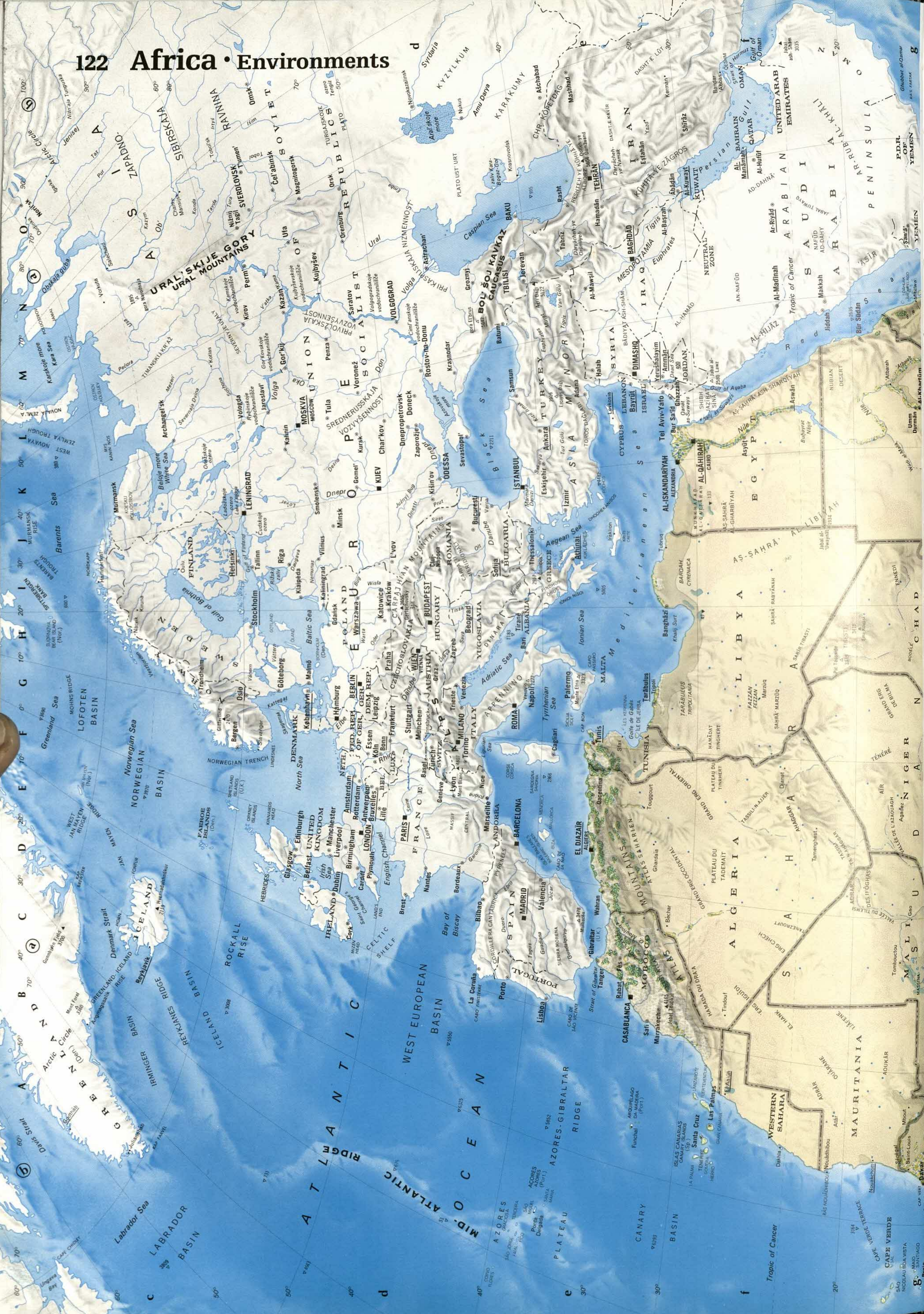
Statute Miles 0 10 20 30 40 50 Mi.

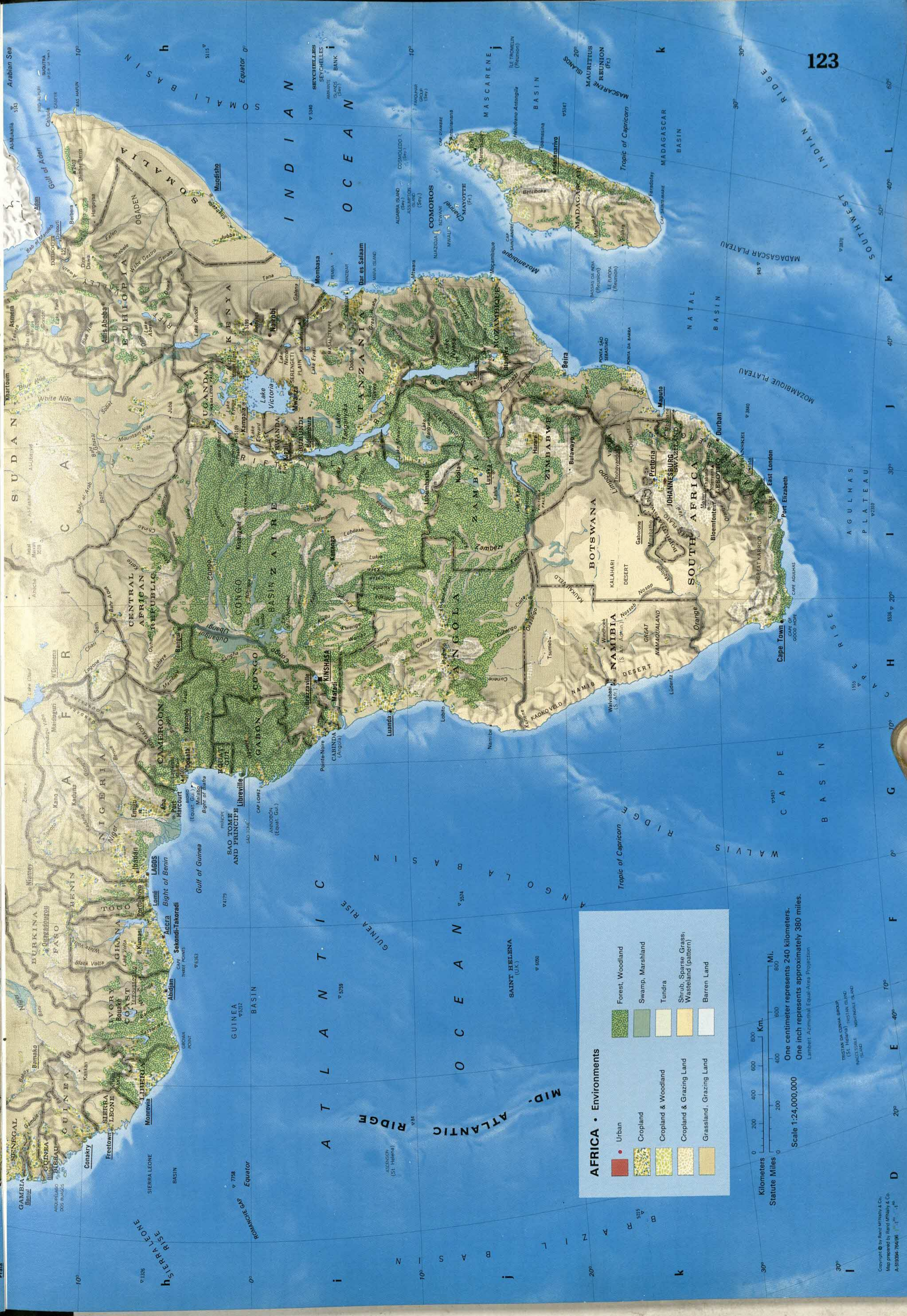
Scale 1:1,000,000

One centimeter represents 10 kilometers.

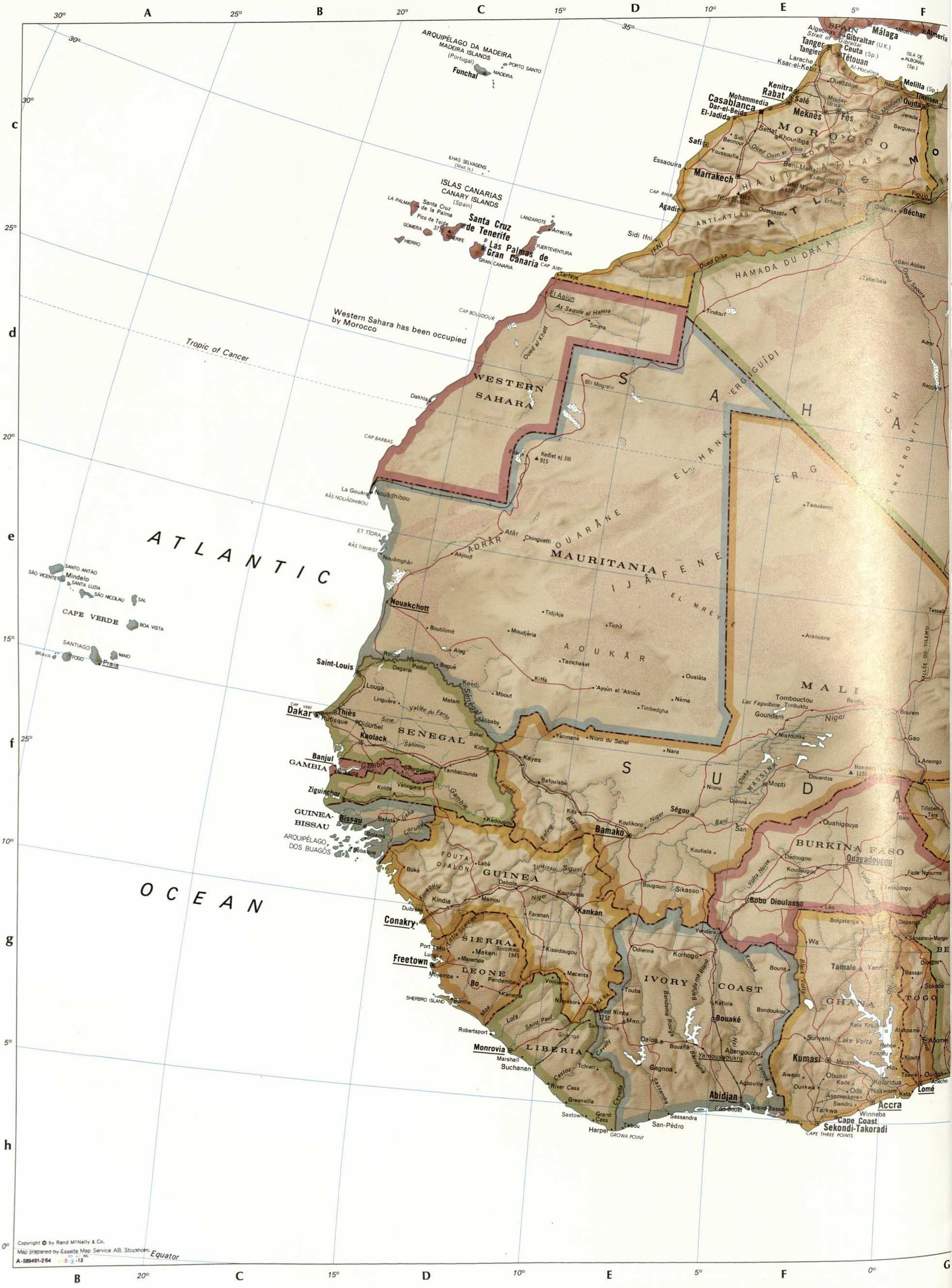
One inch represents approximately 16 miles.

Lambert Conformal Conic Projection


ATLANTIC
OCEAN
WEST EUROPEAN BASIN
MID-ATLANTIC RIDGE
AZORES-GIBRALTAR RIDGE
CANARY BASIN
LABRADOR BASIN
IRMINGER BASIN
ICELAND BASIN
REYKJANES RIDGE
ROCKALL RISE
NORWEGIAN BASIN
Norwegian Sea
Greenland Sea
LOFOTEN BASIN
Barents Sea
Kara Sea
Labrador Sea
Davis Strait
Denmark Strait
GREENLAND
ICELAND
Reykjavík
UNITED KINGDOM
IRELAND
North Sea
Baltic Sea
Bay of Biscay
FRANCE
SPAIN
PORTUGAL
ITALY
DENMARK
NORWAY
SWEDEN
FINLAND
POLAND
CZECHOSLOVAKIA
HUNGARY
AUSTRIA
SWITZ.
ROMANIA
BULGARIA
YUGOSLAVIA
ALBANIA
GREECE
TURKEY
CYPRUS
SYRIA
LEBANON
ISRAEL
JORDAN
IRAQ
IRAN
KUWAIT
SAUDI ARABIA
QATAR
UNITED ARAB EMIRATES
OMAN
P.D.R. OF YEMEN
YEMEN
ARABIAN PENINSULA
Persian Gulf
Red Sea
EGYPT
LIBYA
TUNISIA
ALGERIA
MOROCCO
WESTERN SAHARA
MAURITANIA
MALI
NIGER
CHAD
SUDAN
SAHARA
Mediterranean Sea
Black Sea
Caspian Sea
Aral'skoje more
Adriatic Sea
Tyrrhenian Sea
Ionian Sea
Aegean Sea
ASIA MINOR
UNION OF SOVIET SOCIALIST REPUBLICS
EUROPE
ASIA
URAL'SKIJE GORY
URAL MOUNTAINS
BOL'ŠOJ KAVKAZ
CAUCASUS
ALPS
PYRENEES
ATLAS MOUNTAINS
MOSKVA
LENINGRAD
KIJEV
LONDON
PARIS
MADRID
ROMA
BERLIN
WIEN
BUDAPEST
ISTANBUL
AL-QĀHIRAH
CAIRO
TEHRĀN
BAGHDĀD
Tropic of Cancer
Arctic Circle


AFRICA • Environments
Urban
Cropland
Cropland & Woodland
Cropland & Grazing Land
Grassland, Grazing Land
Forest, Woodland
Swamp, Marshland
Tundra
Shrub, Sparse Grass, Wasteland (pattern)
Barren Land
Scale 1:24,000,000
Kilometers 0 200 400 600 800 Km.
Statute Miles 0 200 400 600 Mi.
One centimeter represents 240 kilometers.
One inch represents approximately 380 miles.
Lambert Azimuthal Equal-Area Projection
Copyright © by Rand McNally & Co.
Map prepared by Rand McNally & Co.
ATLANTIC OCEAN
INDIAN OCEAN
MID-ATLANTIC RIDGE
GUINEA BASIN
ANGOLA BASIN
CAPE BASIN
WALVIS RIDGE
SOMALI BASIN
MASCARENE BASIN
MADAGASCAR BASIN
NATAL BASIN
MOZAMBIQUE PLATEAU
MADAGASCAR PLATEAU
SOUTHWEST INDIAN RIDGE
AGULHAS PLATEAU
Gulf of Guinea
Gulf of Aden
Tropic of Capricorn
Equator
SUDAN
ETHIOPIA
SOMALIA
KENYA
UGANDA
RWANDA
BURUNDI
TANZANIA
ZAIRE
CONGO
GABON
CAMEROON
NIGERIA
CENTRAL AFRICAN REPUBLIC
ANGOLA
ZAMBIA
ZIMBABWE
MOZAMBIQUE
MALAWI
BOTSWANA
NAMIBIA (S. Afr. Admin.)
SOUTH AFRICA
LESOTHO
SWAZILAND
MADAGASCAR
COMOROS
GHANA
TOGO
BENIN
IVORY COAST
LIBERIA
SIERRA LEONE
GUINEA
GUINEA-BISSAU
SENEGAL
GAMBIA
BURKINA FASO
EQUAT. GUI.
SAO TOME AND PRINCIPE
SAINT HELENA (U.K.)
KALAHARI DESERT
NAMIB DESERT
CONGO BASIN
Lake Victoria
Lake Tanganyika
Lake Chad
Zambezi
Congo
Orange
Kinshasa
Brazzaville
Luanda
Nairobi
Dar es Salaam
Mogadisho
Addis Ababa
Khartoum
Kampala
Lusaka
Harare
Pretoria
Johannesburg
Cape Town
Durban
Maputo
Antananarivo
Lagos
Accra
Abidjan
Monrovia
Freetown
Conakry
Libreville
Windhoek
Gaborone
Port Elizabeth
East London
Bloemfontein
Beira
Mombasa
Seychelles
Mauritius
Reunion (Fr.)

Western North Africa



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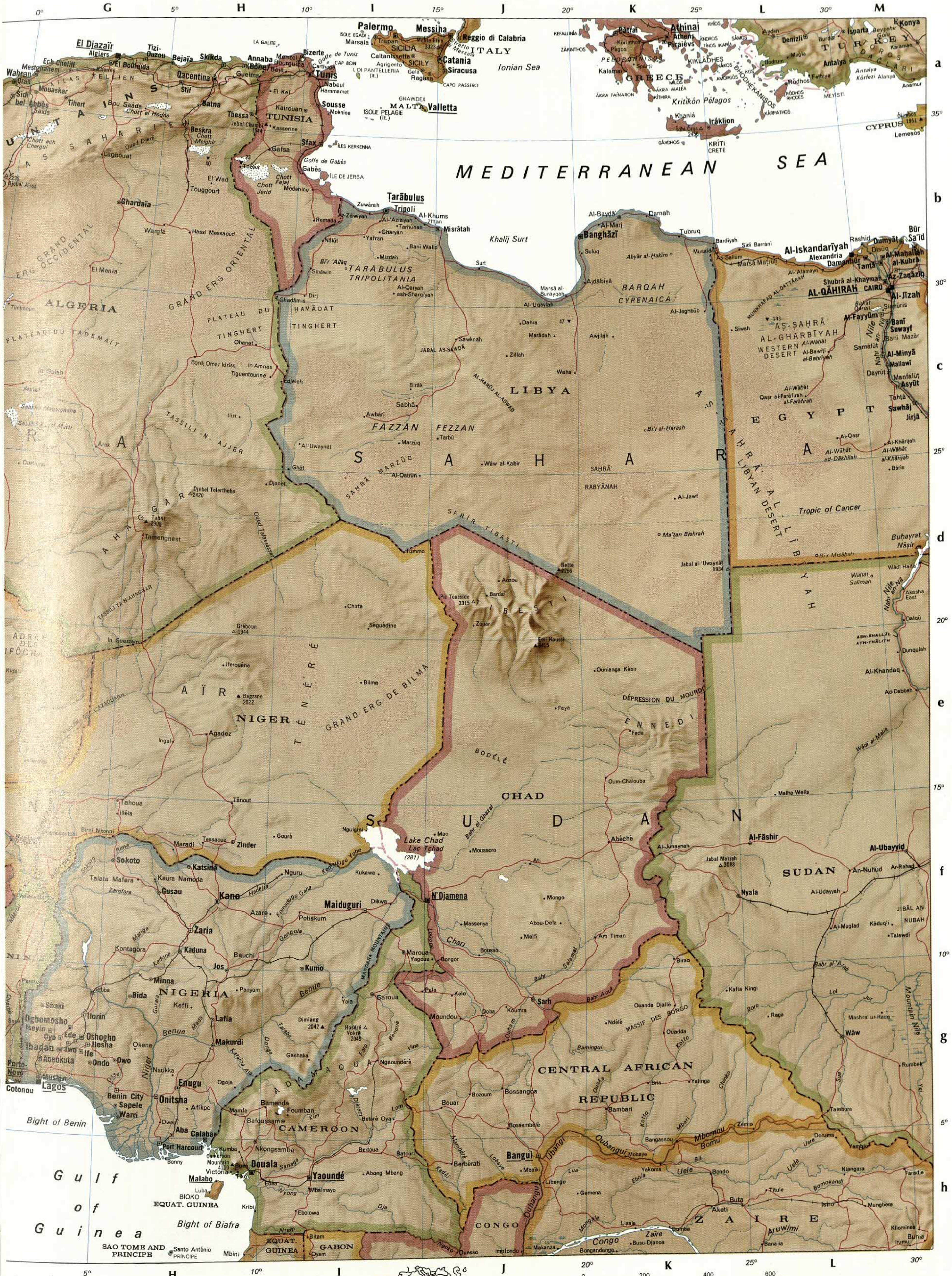
Map prepared by Esselte Map Service AB, Stockholm.
A-589491-2 64



Kilometers 0 200 400 600 Km.

Statute Miles 0 200 400 600 Mi.

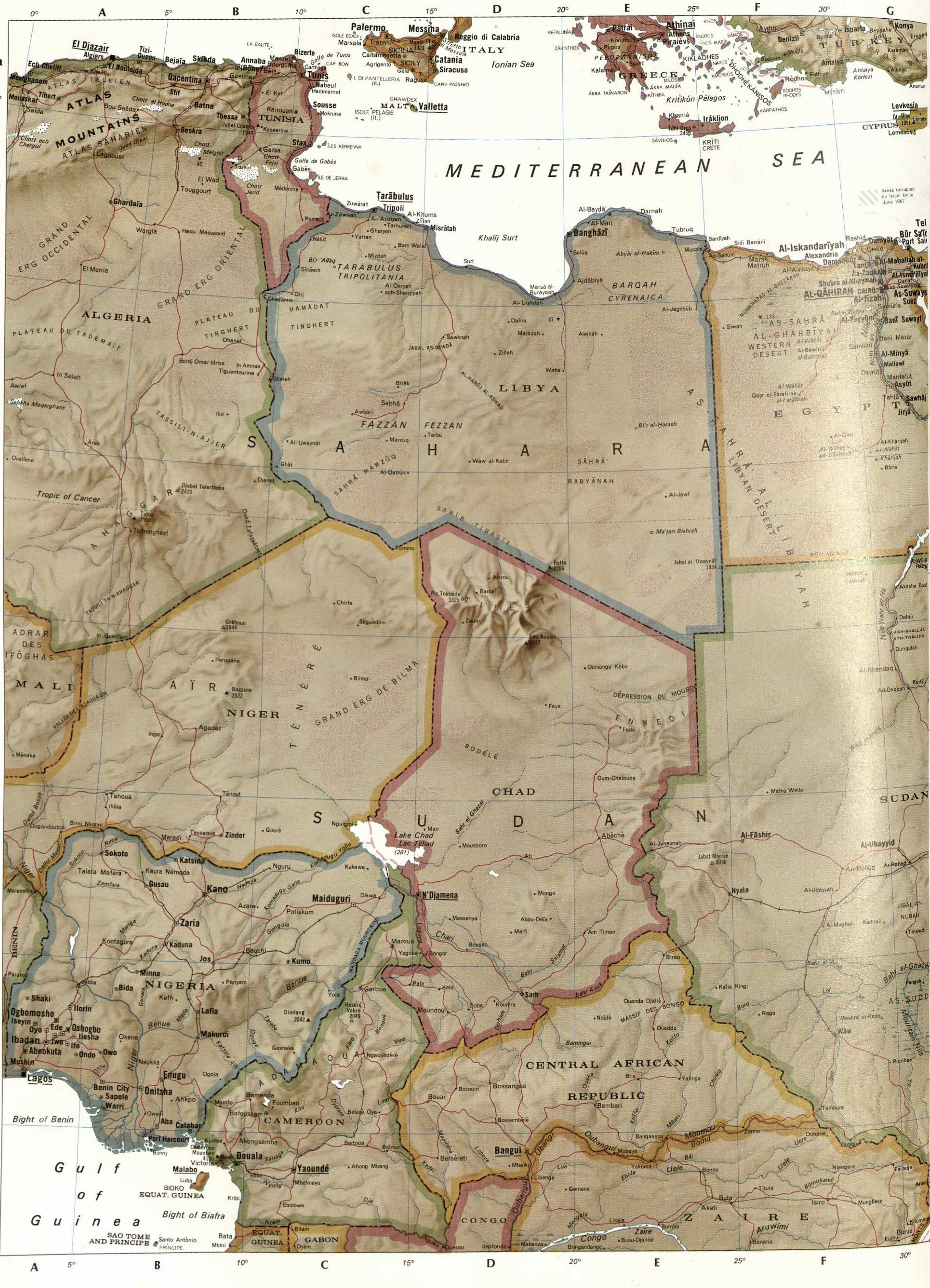
Scale 1:12,000,000

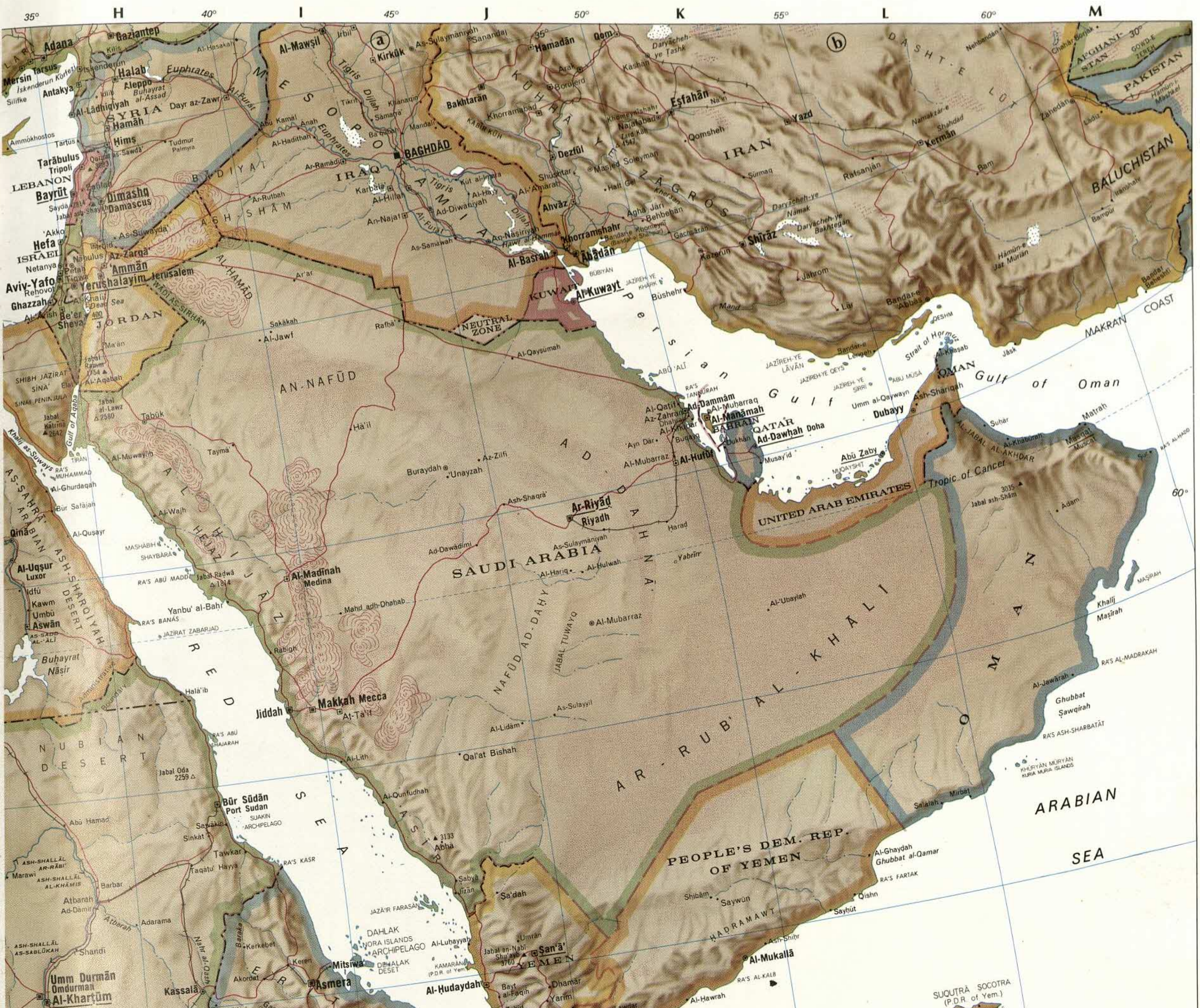
One centimeter represents 120 kilometers.

One inch represents approximately 190 miles.

Miller Oblated Stereographic Projection

Eastern North Africa





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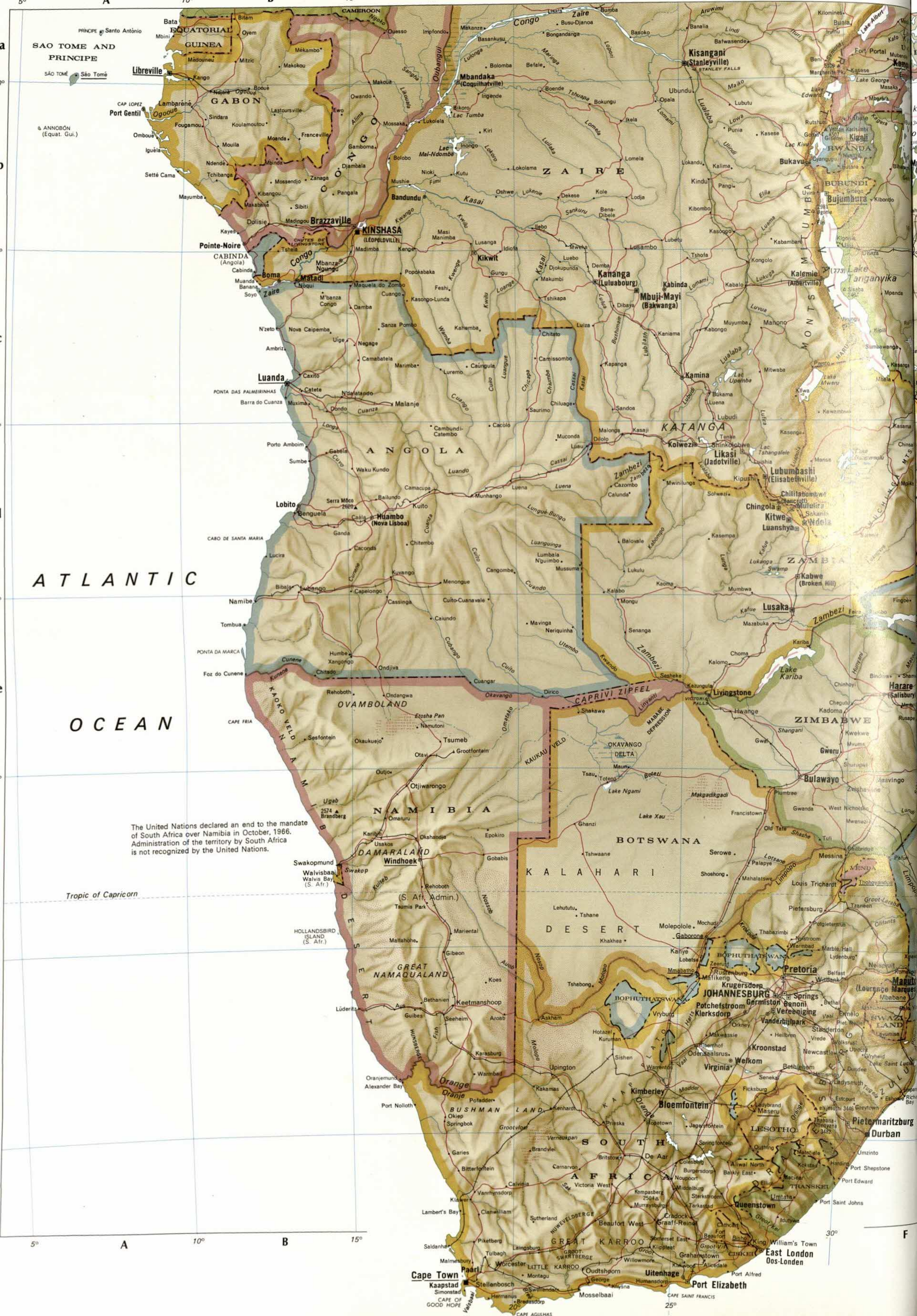
Map prepared by Esselte Map Service AB, Stockholm.
A-589391 -264

Kilometers 0 200 400 600 Km.
Statute Miles 0 200 400 600 Mi.

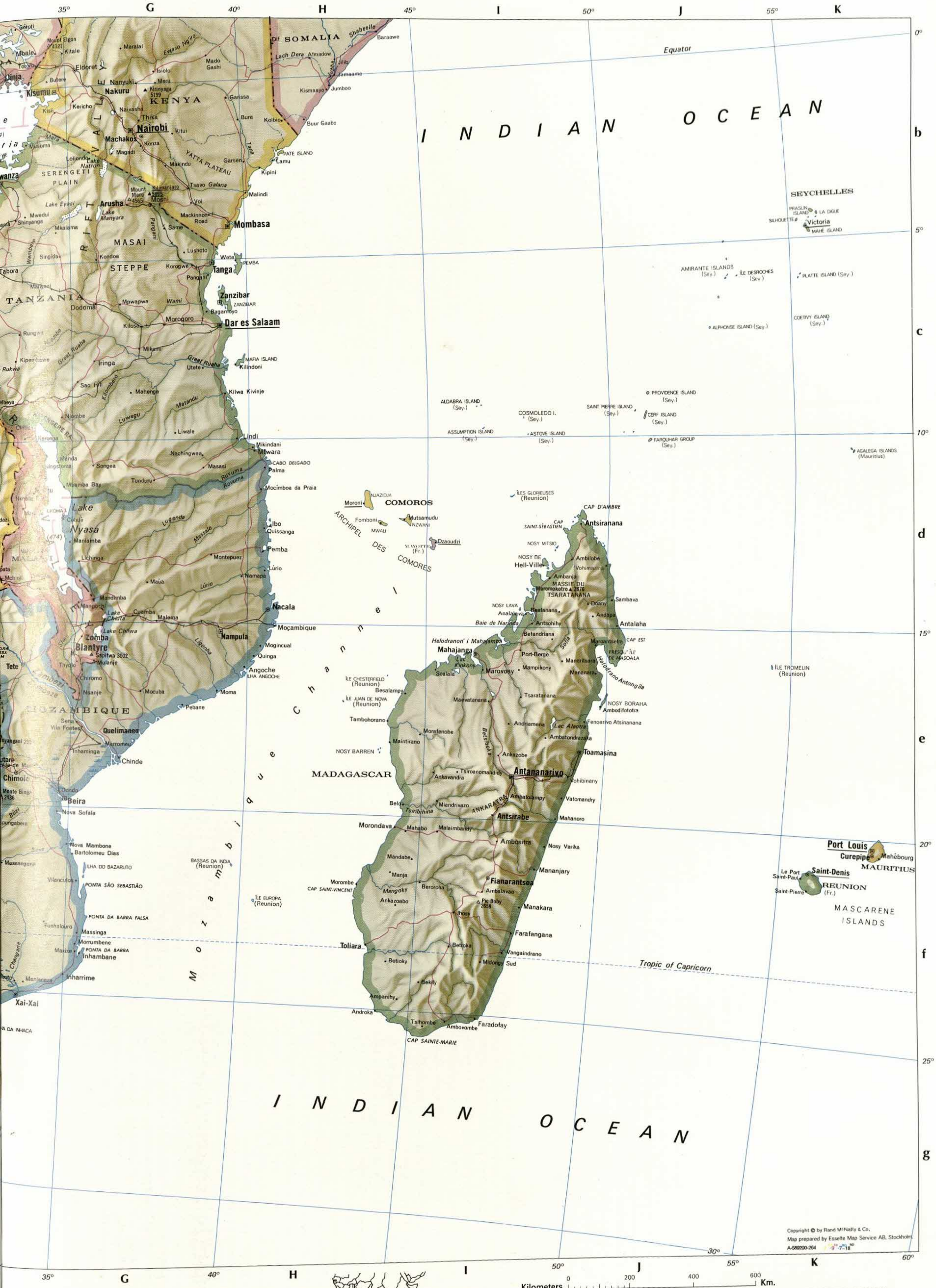
Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Miller Oblated Stereographic Projection

Southern Africa



The United Nations declared an end to the mandate of South Africa over Namibia in October, 1966. Administration of the territory by South Africa is not recognized by the United Nations.



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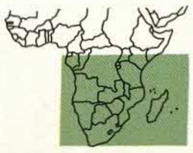
Map prepared by Esselte Map Service AB, Stockholm.
A-589200-264



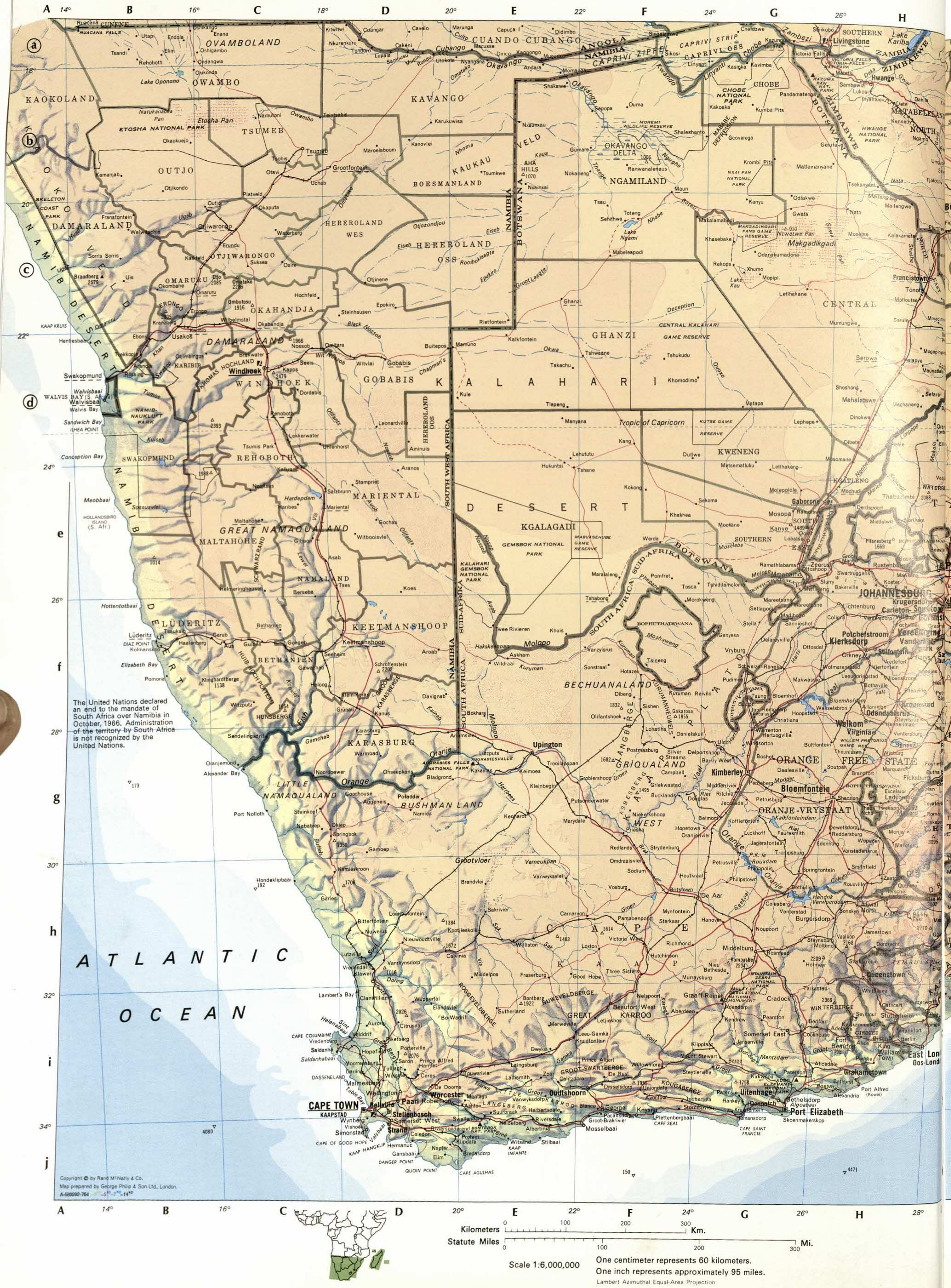
Kilometers 0 200 400 600 Km.

Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Miller Oblated Stereographic Projection

Southern Africa and Madagascar



The United Nations declared an end to the mandate of South Africa over Namibia in October, 1966. Administration of the territory by South Africa is not recognized by the United Nations.

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Map prepared by George Philip & Son Ltd., London.
A-589292-764

Kilometers 0 100 200 300 Km.

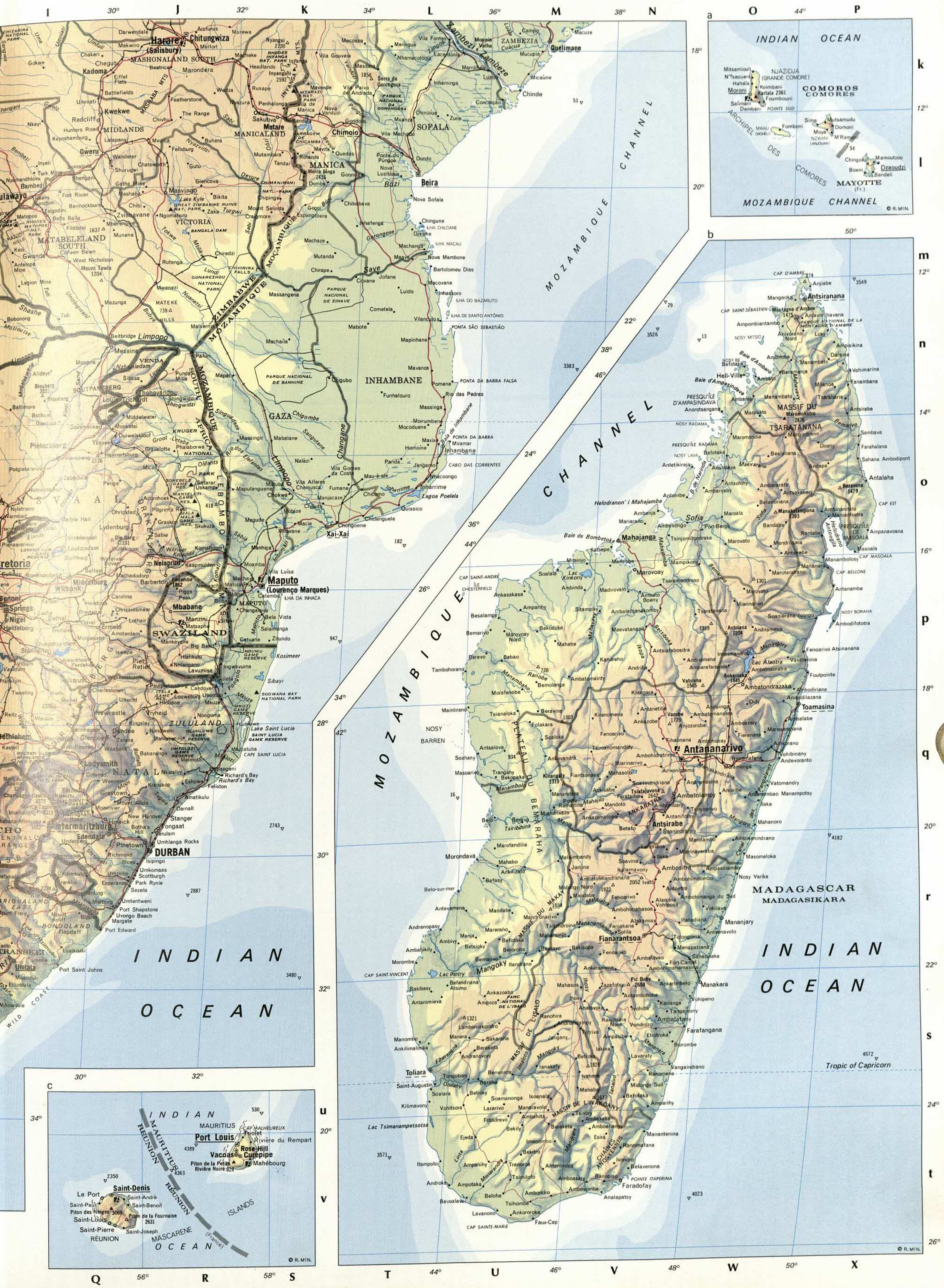
Statute Miles 0 100 200 300 Mi.

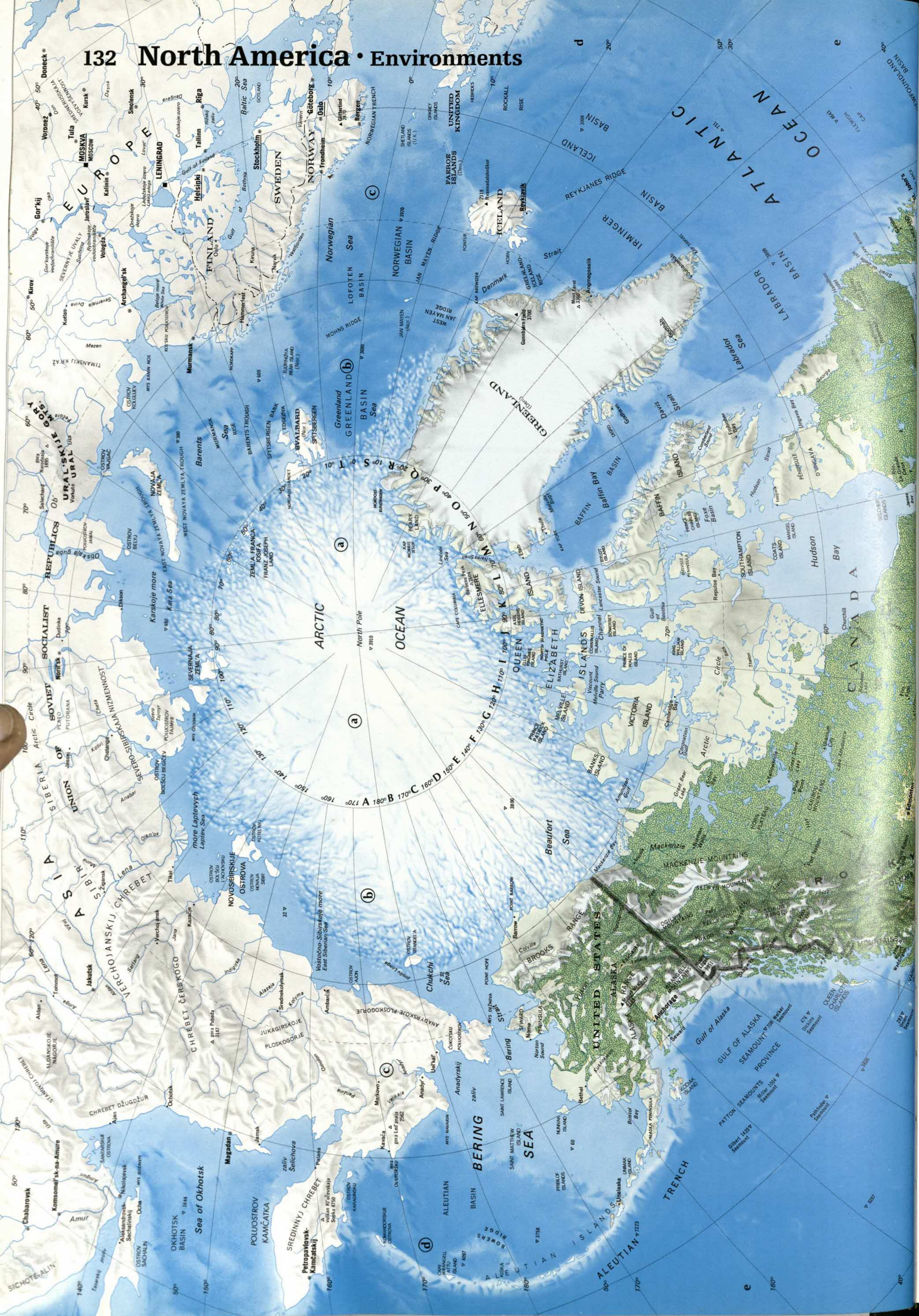
Scale 1:6,000,000

One centimeter represents 60 kilometers.

One inch represents approximately 95 miles.

Lambert Azimuthal Equal-Area Projection


INDIAN OCEAN
NJAZIDJA (GRANDE COMORE)
Moroni
Kartala 2361
COMOROS
COMORES
MWALI (MOHELI)
NZWANI (ANJOUAN)
Mutsamudu
ARCHIPEL DES COMORES
MAYOTTE (Fr.)
Dzaoudzi
MOZAMBIQUE CHANNEL
Harare (Salisbury)
Chitungwiza
MASHONALAND SOUTH
Kadoma
Kwekwe
MIDLANDS
Gweru
Mutare
MANICALAND
Masvingo
VICTORIA
MATABELELAND SOUTH
ZIMBABWE
MOZAMBIQUE
Chimoio
MANICA
Beira
SOFALA
ZAMBEZIA
Quelimane
Zambezi
Save
Limpopo
INHAMBANE
GAZA
Inhambane
Xai-Xai
Maputo (Lourenço Marques)
MAPUTO
Mbabane
SWAZILAND
Manzini
Nelspruit
Pretoria
Benoni
Springs
Nigel
Heidelberg
Pietersburg
KRUGER NATIONAL PARK
ZULULAND
NATAL
Ladysmith
Pietermaritzburg
DURBAN
Richard's Bay
Lake Saint Lucia
TRANSKEI
Umtata
Port Shepstone
Port Saint Johns
WILD COAST
INDIAN OCEAN
MOZAMBIQUE CHANNEL
MADAGASCAR
MADAGASIKARA
Antsiranana
MASSIF DU TSARATANANA
Mahajanga
Toamasina
Antananarivo
Antsirabe
Fianarantsoa
Toliara
Manakara
Farafangana
Mananjary
Morondava
Maintirano
Sambava
Antalaha
Nosy Be
Hell-Ville
Tropic of Capricorn
CAP SAINTE-MARIE
CAP D'AMBRE
INDIAN OCEAN
MAURITIUS
Port Louis
Curepipe
Mahébourg
REUNION
Saint-Denis
Piton des Neiges 3069
Piton de la Fournaise 2631
MAURITIUS
RÉUNION (France)
MASCARENE ISLANDS
MASCARENE OCEAN
© R. MIN.
I J K L M N O P Q R S T U V W X
30° 32° 34° 36° 38° 44° 46° 48° 50° 56° 58°
12° 14° 16° 18° 20° 22° 24° 26°


ARCTIC
OCEAN
North Pole
3910
ATLANTIC
OCEAN
ASIA
EUROPE
SIBERIA
UNION OF SOVIET SOCIALIST REPUBLICS
CANADA
UNITED STATES
ALASKA
GREENLAND
(Den.)
ICELAND
Reykjavík
NORWAY
SWEDEN
FINLAND
UNITED KINGDOM
FAEROE ISLANDS
(Den.)
SHETLAND ISLANDS
(U.K.)
ORKNEY ISLANDS
HEBRIDES
Oslo
Stockholm
Helsinki
Tallinn
Riga
LENINGRAD
MOSKVA
MOSCOW
Bergen
Trondheim
Göteborg
Murmansk
Arkhangel'sk
Norwegian Sea
NORWEGIAN BASIN
LOFOTEN BASIN
MOHNS RIDGE
JAN MAYEN
(Nor.)
WEST JAN MAYEN RIDGE
JAN MAYEN RIDGE
Greenland Sea
GREENLAND BASIN
Barents Sea
SVALBARD
(Nor.)
SPITSBERGEN
BJØRNØYA
BEAR ISLAND
(Nor.)
NOVAJA ZEMLJA
ZEMLJA FRANCA-IOSIFA
FRANZ JOSEPH LAND
Kara Sea
Karskoje more
SEVERNAJA ZEML'A
Laptev Sea
more Laptevych
NOVOSIBIRSKIJE OSTROVA
East Siberian Sea
Vostočno-Sibirskoje more
OSTROV VRANGEL'A
Chukchi Sea
Bering Strait
BERING SEA
ALEUTIAN BASIN
ALEUTIAN ISLANDS
ALEUTIAN TRENCH
BOWERS RIDGE
Sea of Okhotsk
OKHOTSK BASIN
POLUOSTROV KAMČATKA
Petropavlovsk-Kamčatskij
Magadan
Anadyr'
Jakutsk
Verchojansk
VERCHOJANSKIJ CHREBET
CHREBET ČERSKOGO
Lena
Kolyma
Norilsk
Dudinka
Salechard
URAL'SKIJE GORY
URAL MTS.
Ob
Obskaja guba
Vorkuta
Beaufort Sea
Mackenzie
MACKENZIE MOUNTAINS
BROOKS RANGE
ALASKA RANGE
Barrow
Anchorage
Nome
Seward
Yukon
Gulf of Alaska
GULF OF ALASKA SEAMOUNT PROVINCE
KODIAK ISLAND
Bristol Bay
Norton Sound
SAINT LAWRENCE ISLAND
SAINT MATTHEW ISLAND
NUNIVAK ISLAND
PRIBILOF ISLANDS
Unalaska
QUEEN ELIZABETH ISLANDS
ELLESMERE ISLAND
DEVON ISLAND
BANKS ISLAND
VICTORIA ISLAND
MELVILLE ISLAND
PRINCE PATRICK ISLAND
BAFFIN ISLAND
Baffin Bay
BAFFIN BASIN
Davis Strait
Labrador Sea
LABRADOR BASIN
Hudson Bay
Hudson Strait
SOUTHAMPTON ISLAND
Foxe Basin
Gulf of Boothia
Lancaster Sound
Viscount Melville Sound
Amundsen Gulf
Great Bear Lake
Great Slave Lake
Edmonton
Churchill
Arctic Circle
Denmark Strait
IRMINGER BASIN
REYKJANES RIDGE
ICELAND BASIN
ROCKALL RISE
NORWEGIAN TRENCH
Gulf of Bothnia
Gulf of Finland
Baltic Sea
a
b
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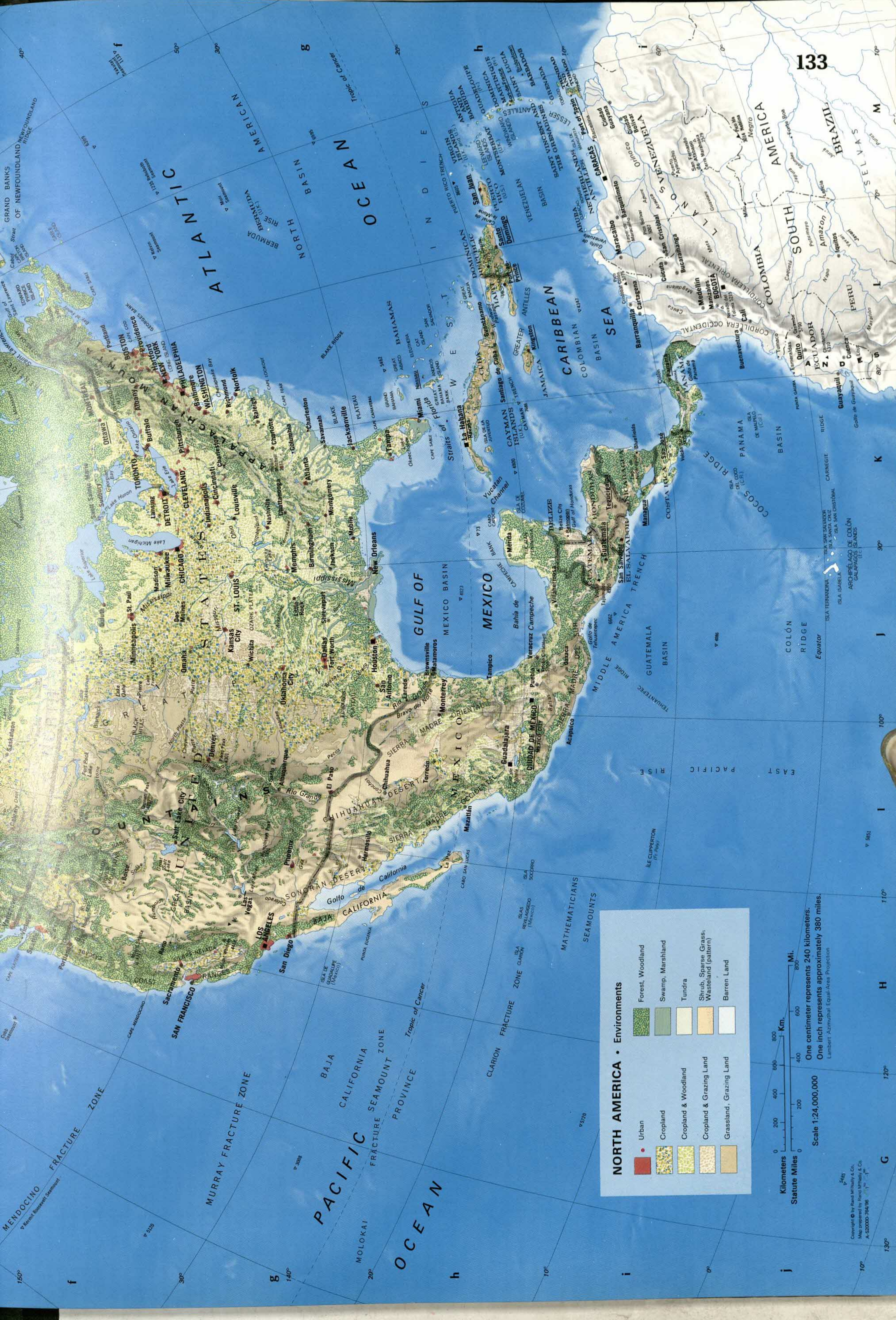
e
A B C D E F G H I K L M N O P Q R S T


NORTH AMERICA • Environments
Urban
Cropland
Cropland & Woodland
Cropland & Grazing Land
Grassland, Grazing Land
Forest, Woodland
Swamp, Marshland
Tundra
Shrub, Sparse Grass; Wasteland (pattern)
Barren Land
Kilometers 0 200 400 600 800 Km.
Statute Miles 0 200 400 600 800 Mi.
Scale 1:24,000,000
One centimeter represents 240 kilometers.
One inch represents approximately 380 miles.
Lambert Azimuthal Equal-Area Projection
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Map prepared by Rand McNally & Co.
A-520000-764/96
ATLANTIC OCEAN
PACIFIC OCEAN
GULF OF MEXICO
CARIBBEAN SEA
UNITED STATES
MEXICO
SOUTH AMERICA
COLOMBIA
VENEZUELA
ECUADOR
PERU
BRAZIL
WEST INDIES
GREATER ANTILLES
LESSER ANTILLES
BAHAMAS
CUBA
HAITI
DOMINICAN REPUBLIC
JAMAICA
PUERTO RICO
GUATEMALA
BELIZE
HONDURAS
EL SALVADOR
NICARAGUA
COSTA RICA
PANAMA
SIERRA MADRE OCCIDENTAL
SIERRA MADRE ORIENTAL
SIERRA MADRE DEL SUR
CHIHUAHUAN DESERT
SONORAN DESERT
BAJA CALIFORNIA
Golfo de California
GREAT PLAINS
APPALACHIAN MOUNTAINS
MIDDLE AMERICA TRENCH
EAST PACIFIC RISE
MURRAY FRACTURE ZONE
MENDOCINO FRACTURE ZONE
CLARION FRACTURE ZONE
MOLOKAI FRACTURE ZONE
BAJA CALIFORNIA SEAMOUNT PROVINCE
MATHEMATICIANS SEAMOUNTS
COCOS RIDGE
CARNEGIE RIDGE
COLÓN RIDGE
GUATEMALA BASIN
PANAMA BASIN
MEXICO BASIN
NORTH AMERICAN BASIN
BERMUDA RISE
Tropic of Cancer
Equator
ARCHIPIÉLAGO DE COLÓN (GALÁPAGOS ISLANDS)
WASHINGTON
NEW YORK
PHILADELPHIA
BOSTON
CHICAGO
DETROIT
CLEVELAND
ST. LOUIS
LOS ANGELES
SAN FRANCISCO
CIUDAD DE MÉXICO
La Habana
CARACAS
BOGOTÁ
Quito
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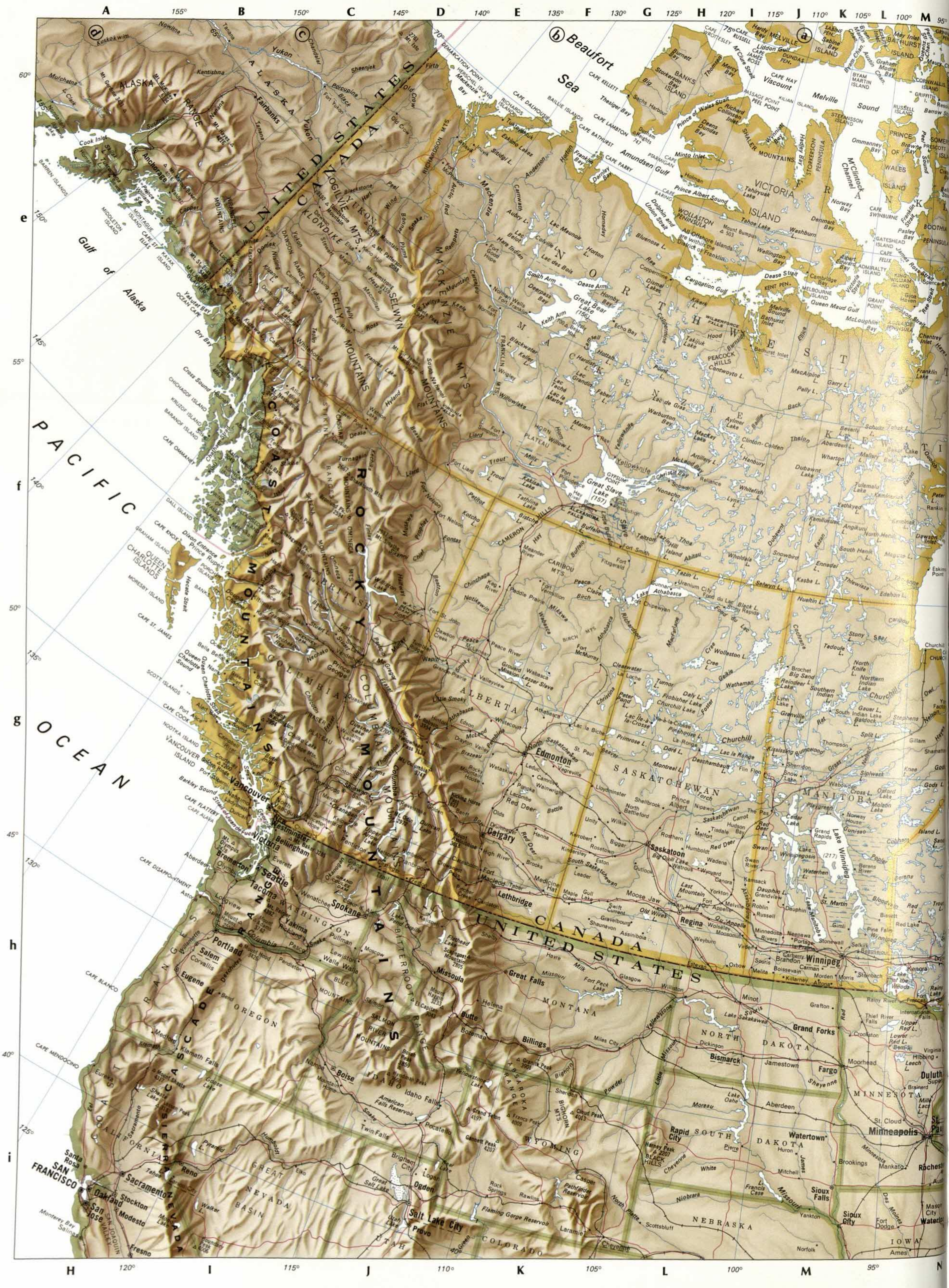
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ALASKA
ALASKA RANGE
Fairbanks
Anchorage
Cook Inlet
Gulf of Alaska
PACIFIC OCEAN
UNITED STATES
CANADA
Yukon
Porcupine
Old Crow
OGILVIE MTS.
KLONDIKE
YUKON
Dawson
Whitehorse
PELLY MOUNTAINS
SELWYN MTS.
MACKENZIE MTS.
RICHARDSON MTS.
Mackenzie
Mackenzie Bay
Inuvik
Fort Good Hope
Norman Wells
Fort Norman
Great Bear Lake (156)
Great Slave Lake (157)
Yellowknife
Hay River
Fort Smith
Fort Simpson
Fort Liard
Fort Nelson
Liard
Peace
Athabasca
Lake Athabasca
Fort McMurray
Uranium City
Fort Chipewyan
NORTHWEST TERRITORIES
MACKENZIE
KEEWATIN
Victoria Island
Banks Island
Melville Island
Prince of Wales Strait
Amundsen Gulf
Coronation Gulf
Queen Maud Gulf
M'Clintock Channel
Viscount Melville Sound
Prince of Wales Island
Bathurst Inlet
Dubawnt Lake
Nueltin L.
Reindeer Lake
Wollaston L.
Churchill
Nelson
Lake Winnipeg
Lake Winnipegosis
Lake Manitoba
Winnipeg
Kenora
The Pas
Flin Flon
MANITOBA
SASKATCHEWAN
Prince Albert
Saskatoon
Regina
Moose Jaw
Swift Current
Yorkton
Brandon
ALBERTA
Edmonton
Red Deer
Calgary
Lethbridge
Medicine Hat
Grande Prairie
Dawson Creek
Peace River
ROCKY MOUNTAINS
COLUMBIA MOUNTAINS
COAST MOUNTAINS
CASSIAR MOUNTAINS
Prince George
Prince Rupert
Kamloops
Vancouver
Victoria
New Westminster
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GRAHAM ISLAND
MORESBY ISLAND
VANCOUVER ISLAND
Dixon Entrance
Hecate Strait
Queen Charlotte Sound
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Mt. Logan 6050
Mt. McKinley 6194
Bellingham
Seattle
Tacoma
Olympia
Bremerton
Spokane
Yakima
WASHINGTON
Portland
Salem
Eugene
OREGON
CASCADE RANGE
SIERRA NEVADA
Boise
IDAHO
Missoula
Great Falls
Helena
Butte
Billings
MONTANA
BITTERROOT RANGE
SALMON RIVER MOUNTAINS
Minot
Bismarck
Grand Forks
Fargo
NORTH DAKOTA
Rapid City
SOUTH DAKOTA
Pierre
Sioux Falls
MINNESOTA
Minneapolis
Duluth
WYOMING
BIGHORN MTS.
ABSAROKA RANGE
Casper
Cheyenne
NEBRASKA
UTAH
Ogden
Salt Lake City
Great Salt Lake
Provo
GREAT BASIN
NEVADA
Reno
CALIFORNIA
Sacramento
SAN FRANCISCO
Oakland
San Jose
Stockton
Modesto
Fresno
COLORADO
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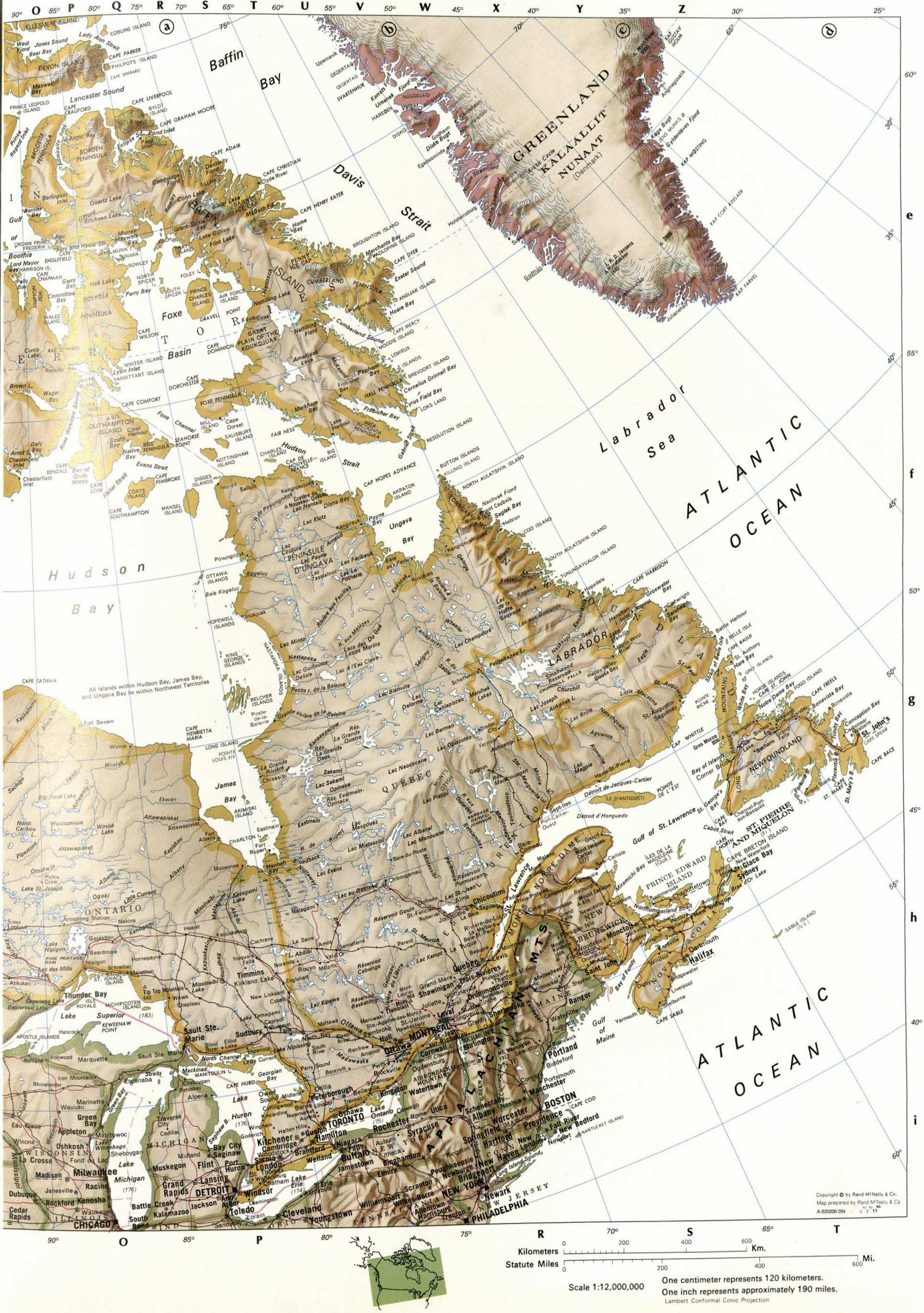
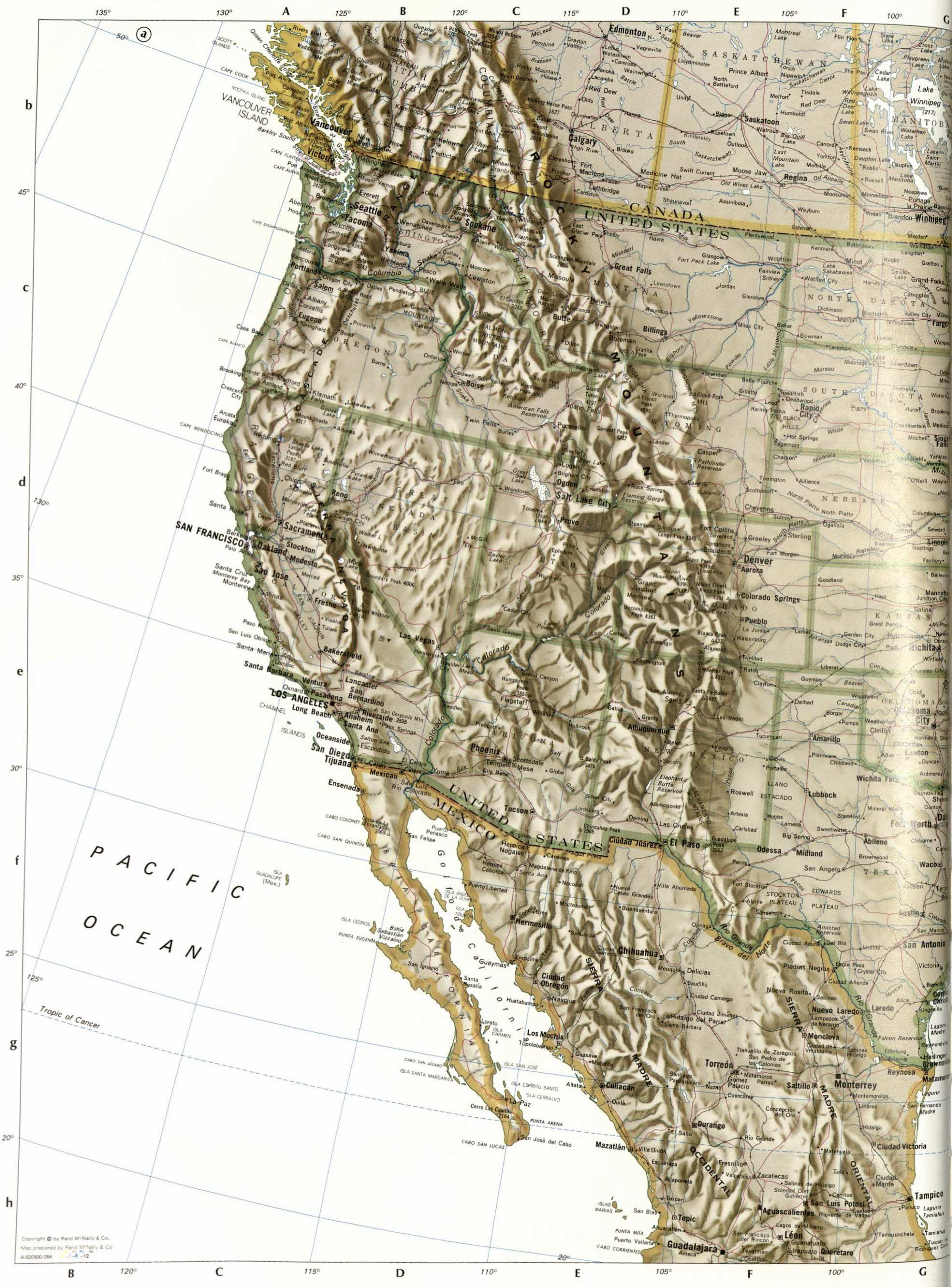


Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.

Lambert Conformal Conic Projection

United States



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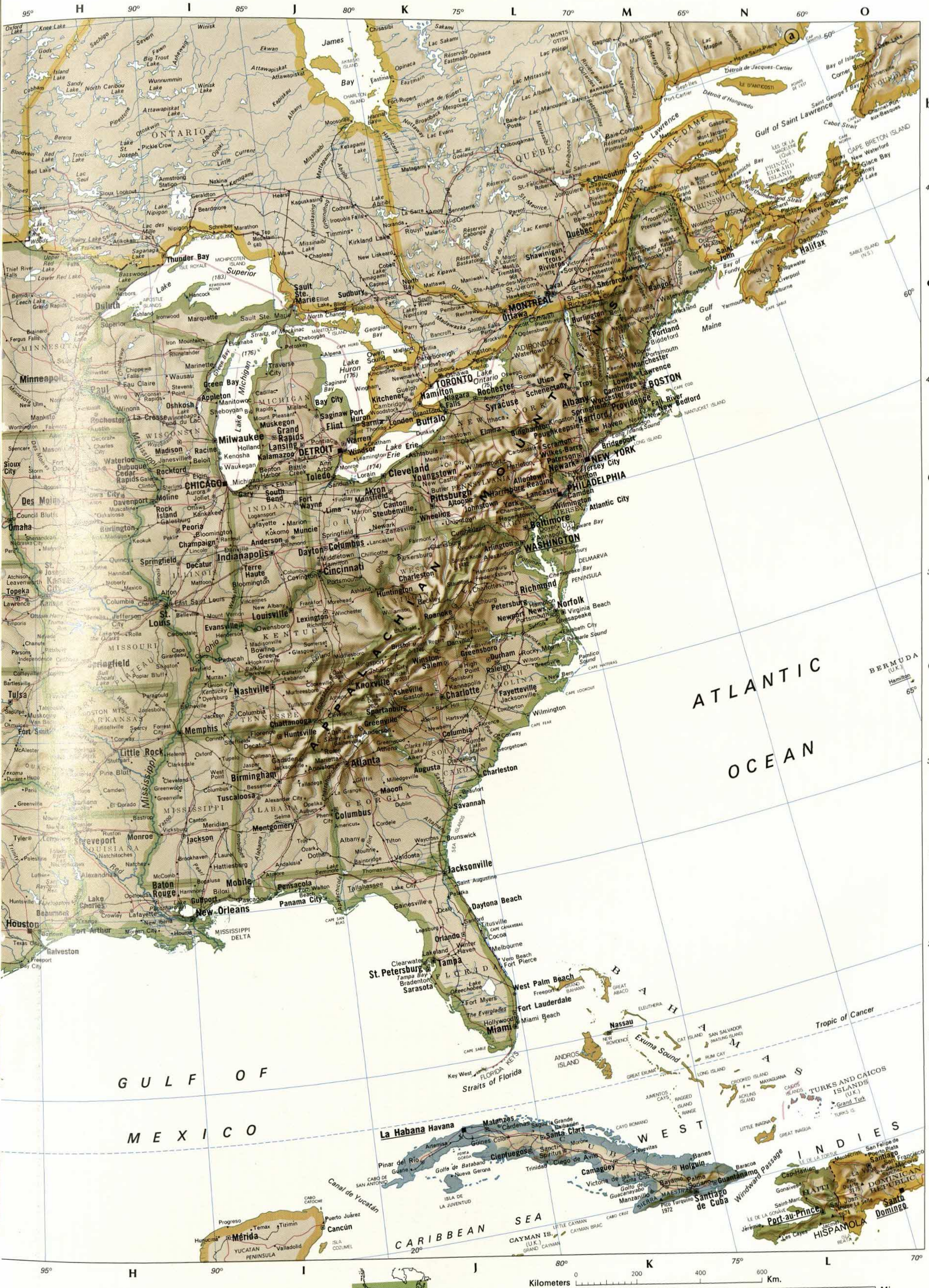
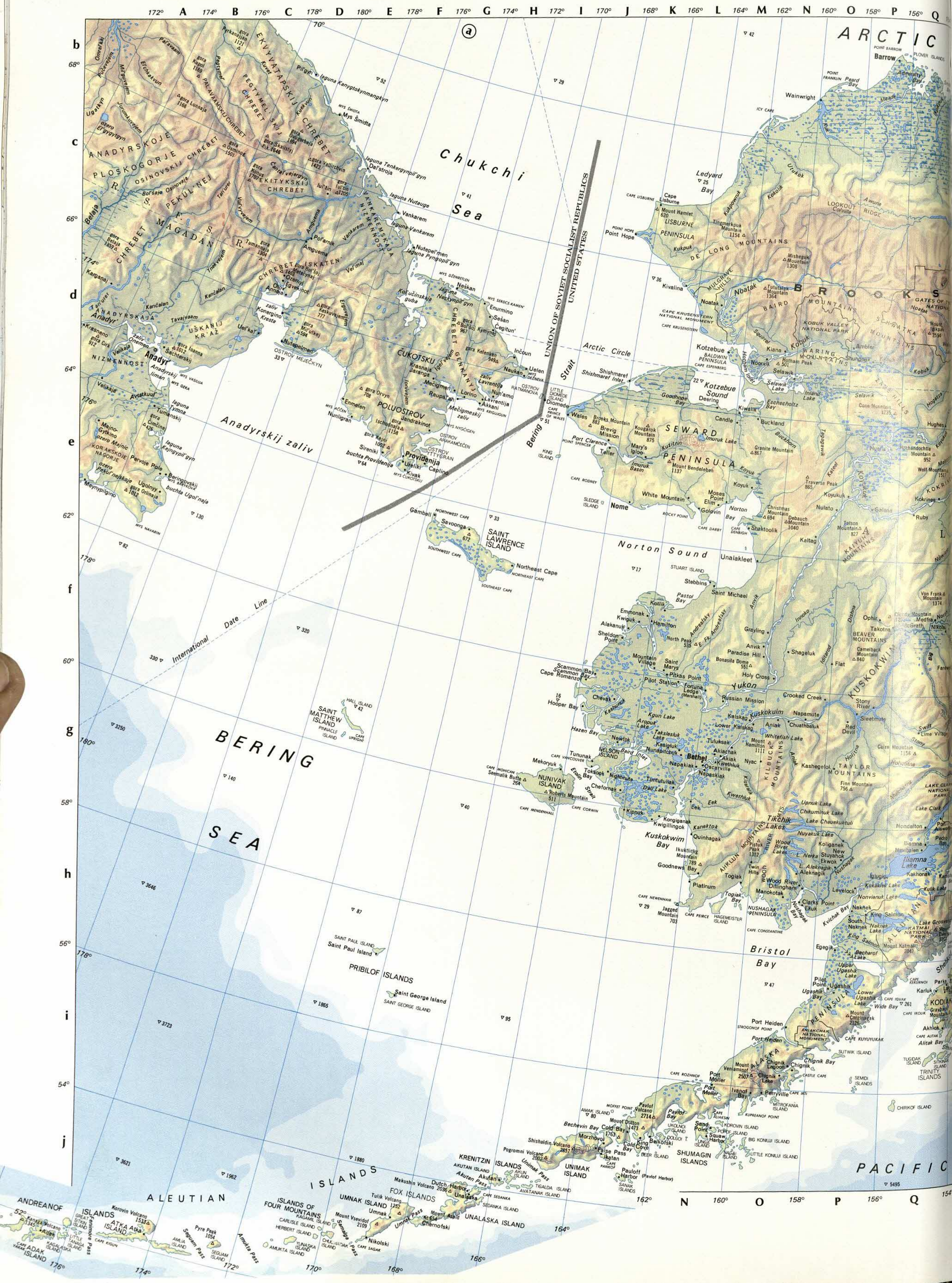


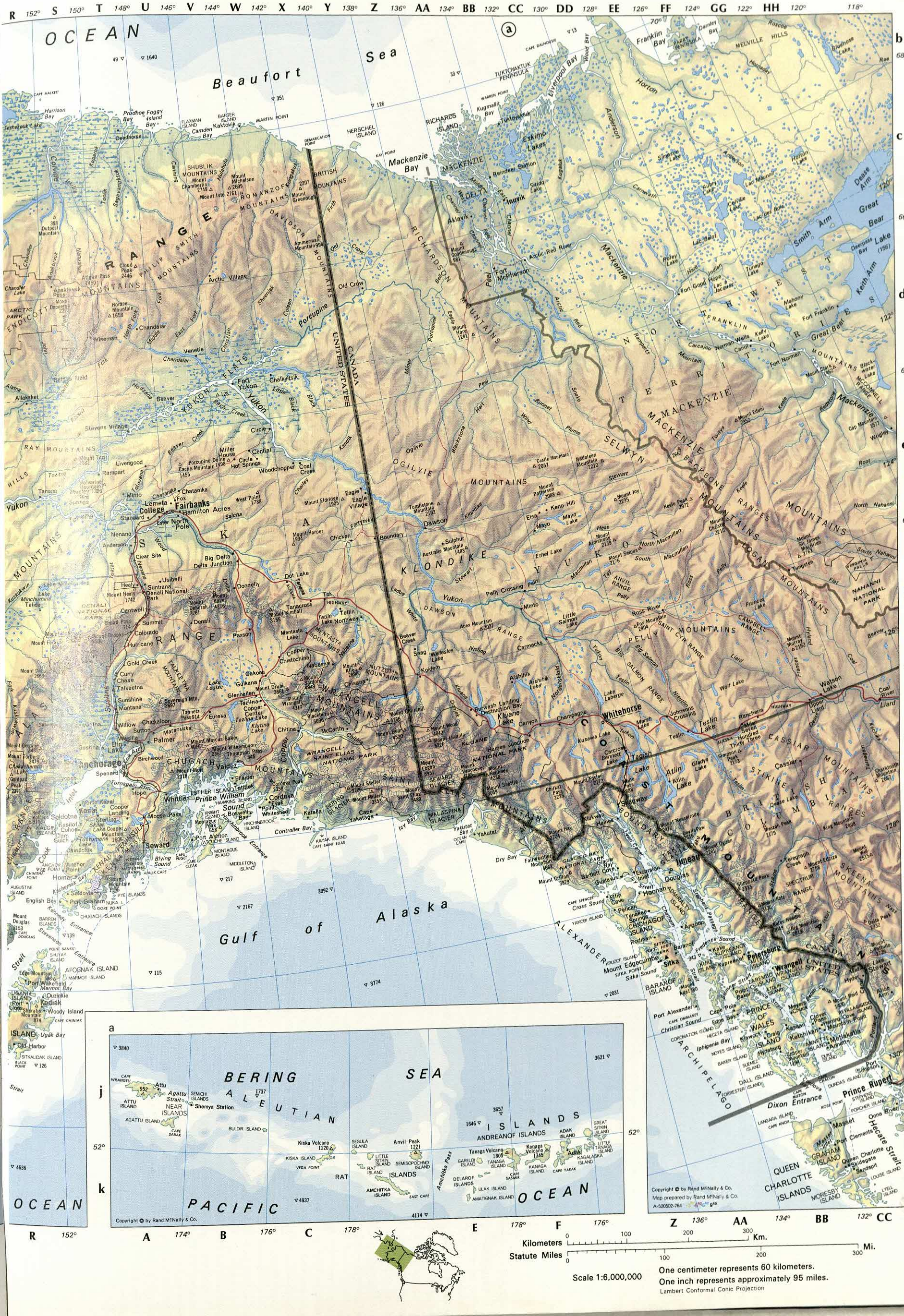
Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.

Albers Conical Equal-Area Projection

Alaska and Yukon



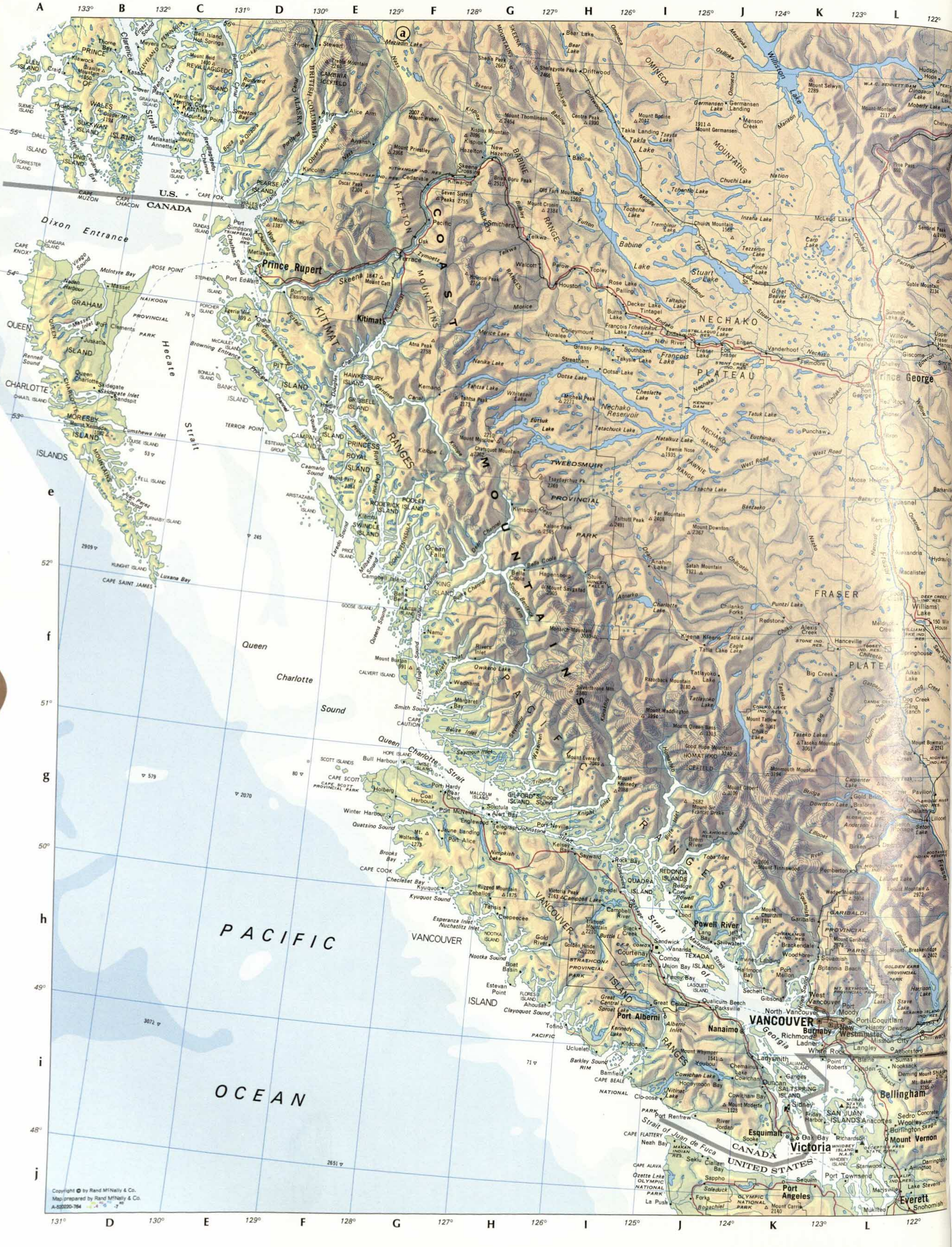


Kilometers 0 100 200 300 Km.
Statute Miles 0 100 200 300 Mi.

Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Lambert Conformal Conic Projection

Southwestern Canada



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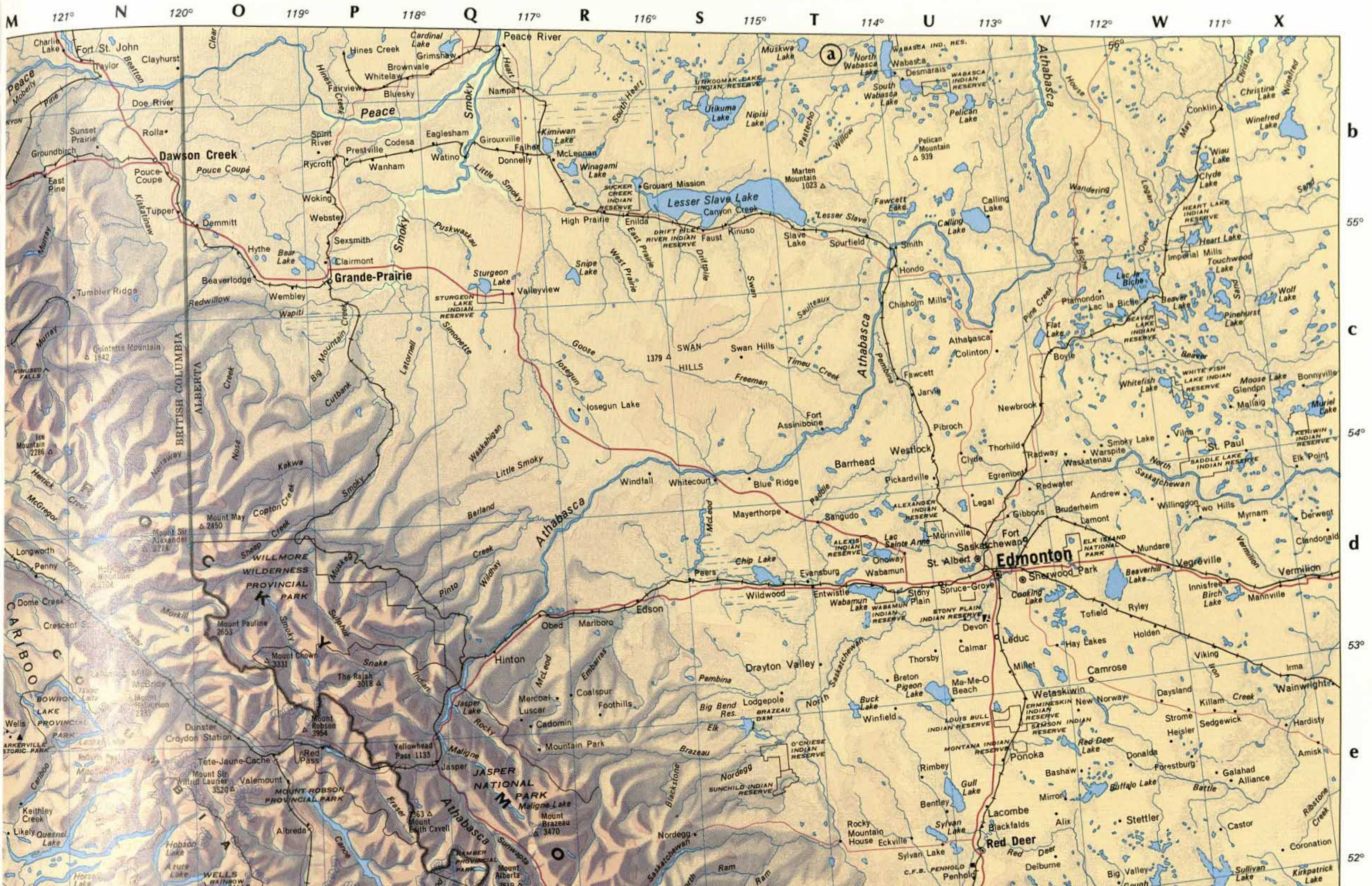


Kilometers 0 50 100 150 Km.

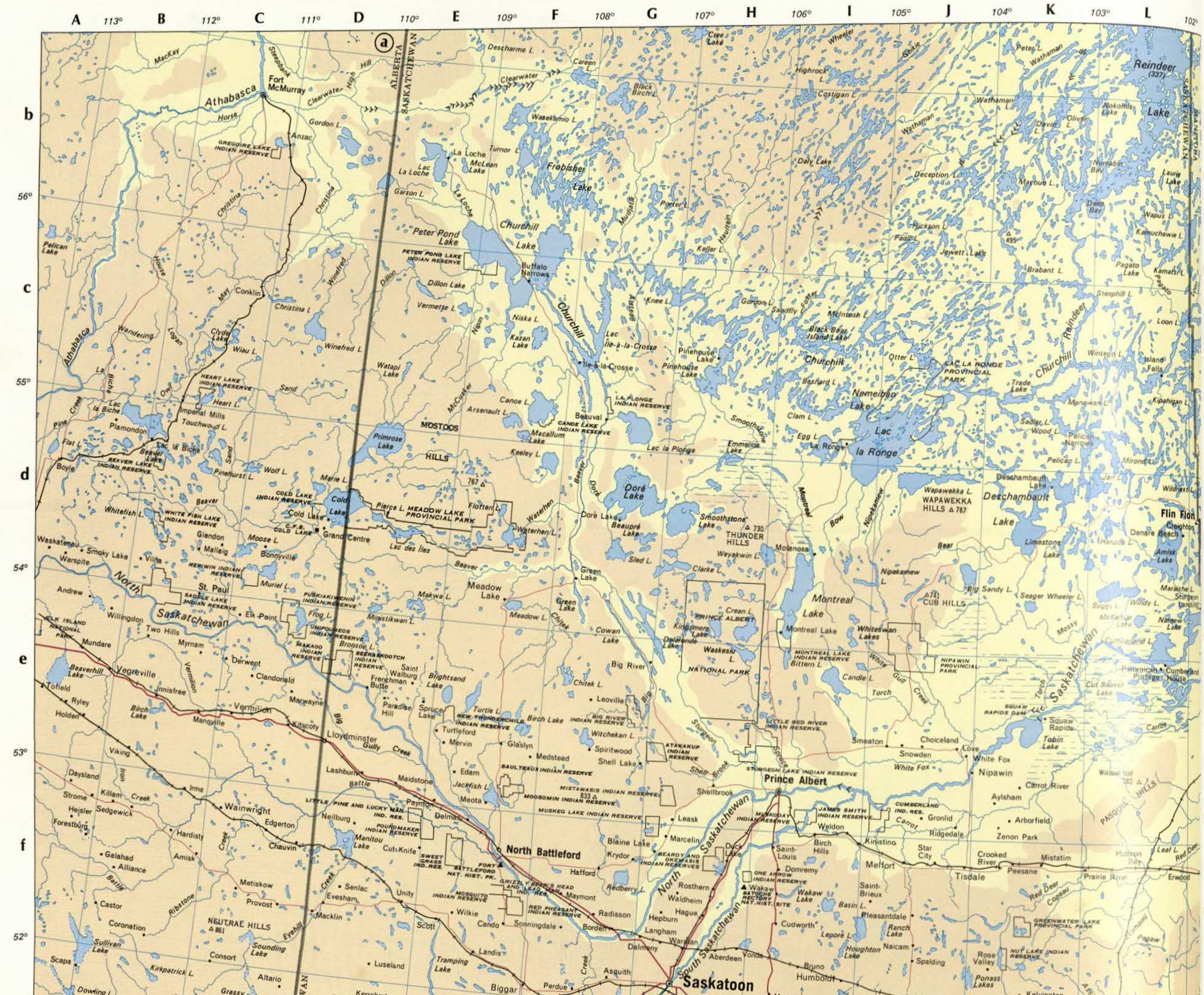
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

Lambert Conformal Conic Projection

South Central Canada



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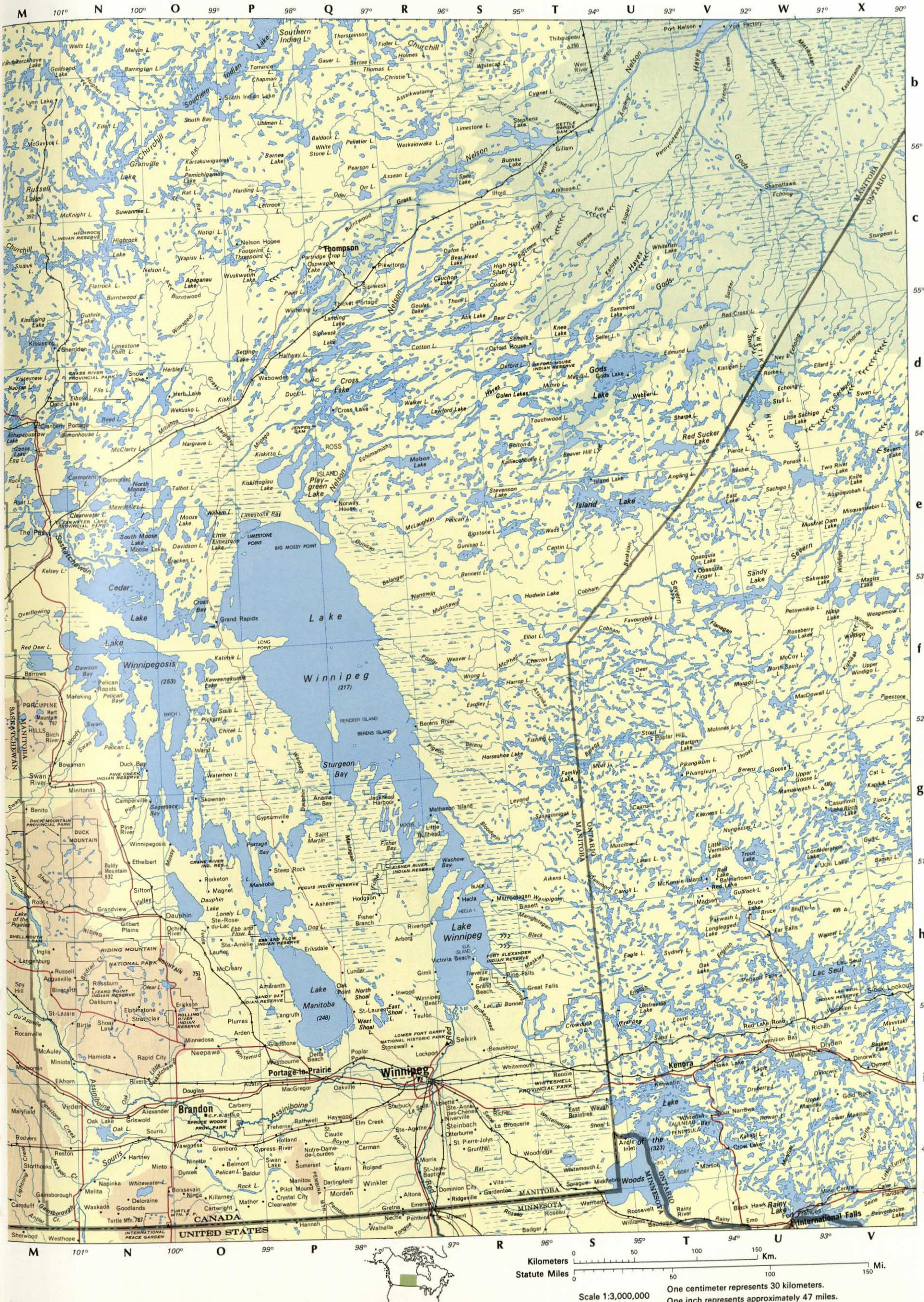


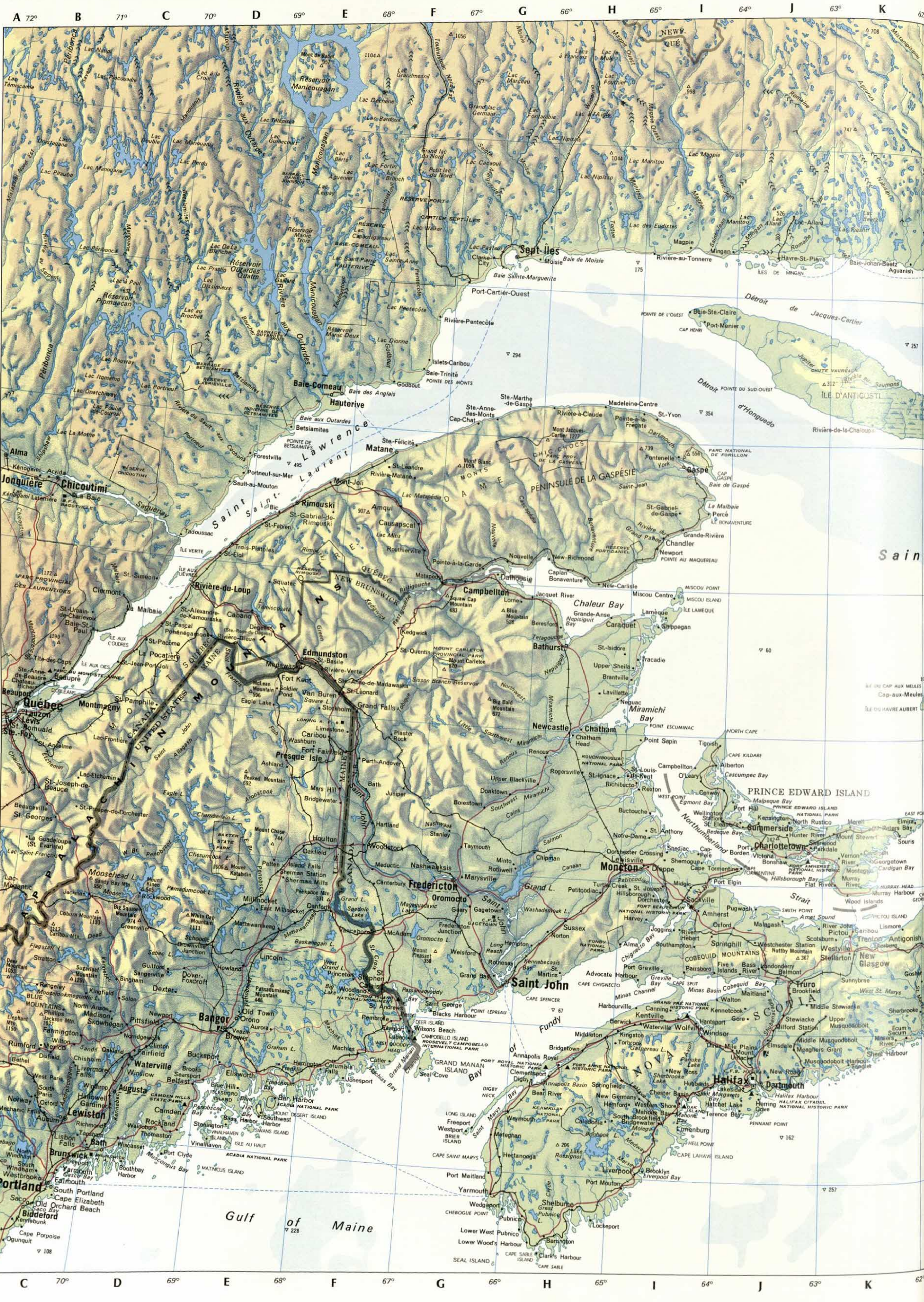
Kilometers 0 50 100 150 Km.

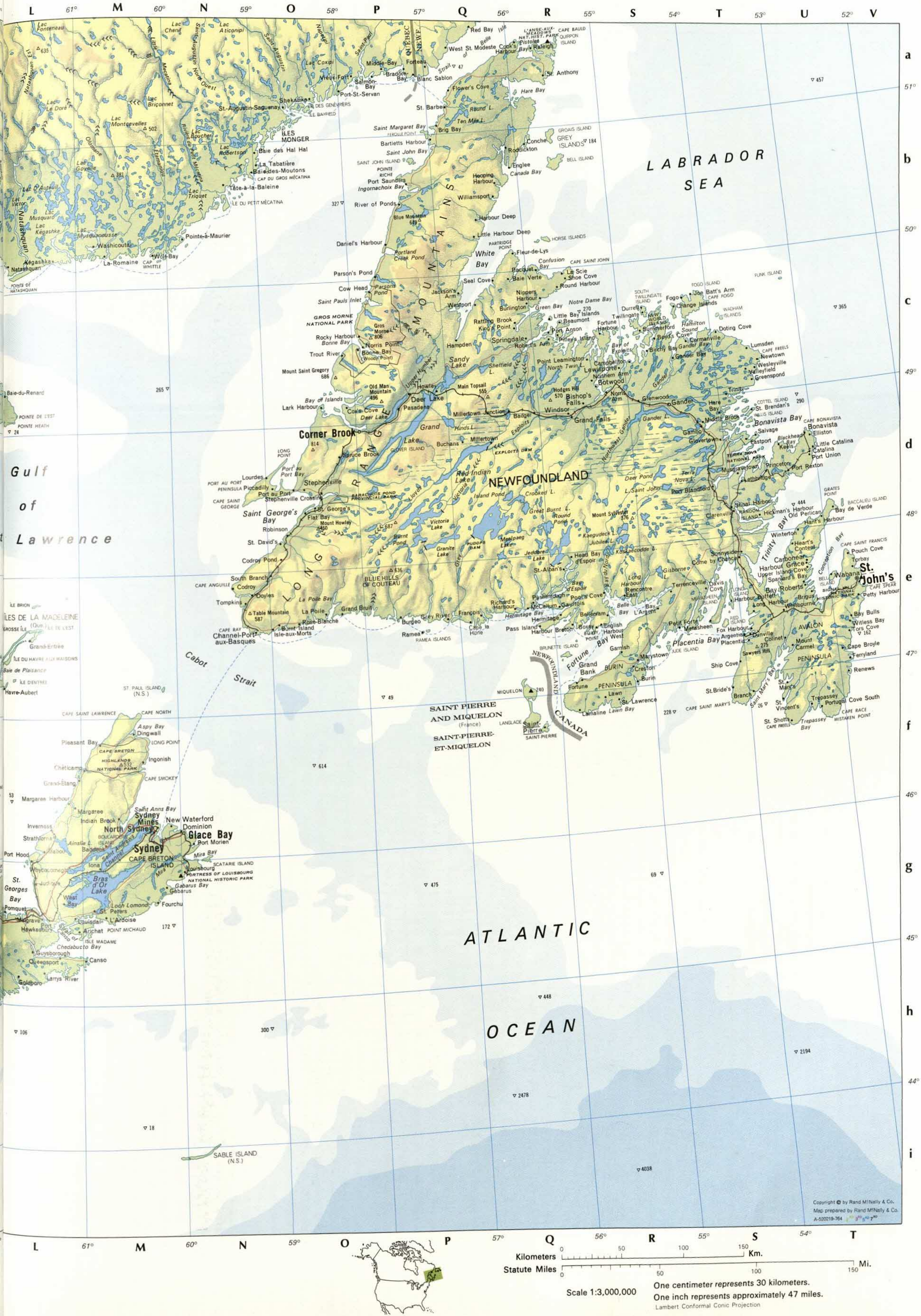
Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Lambert Conformal Conic Projection

Southeastern Canada

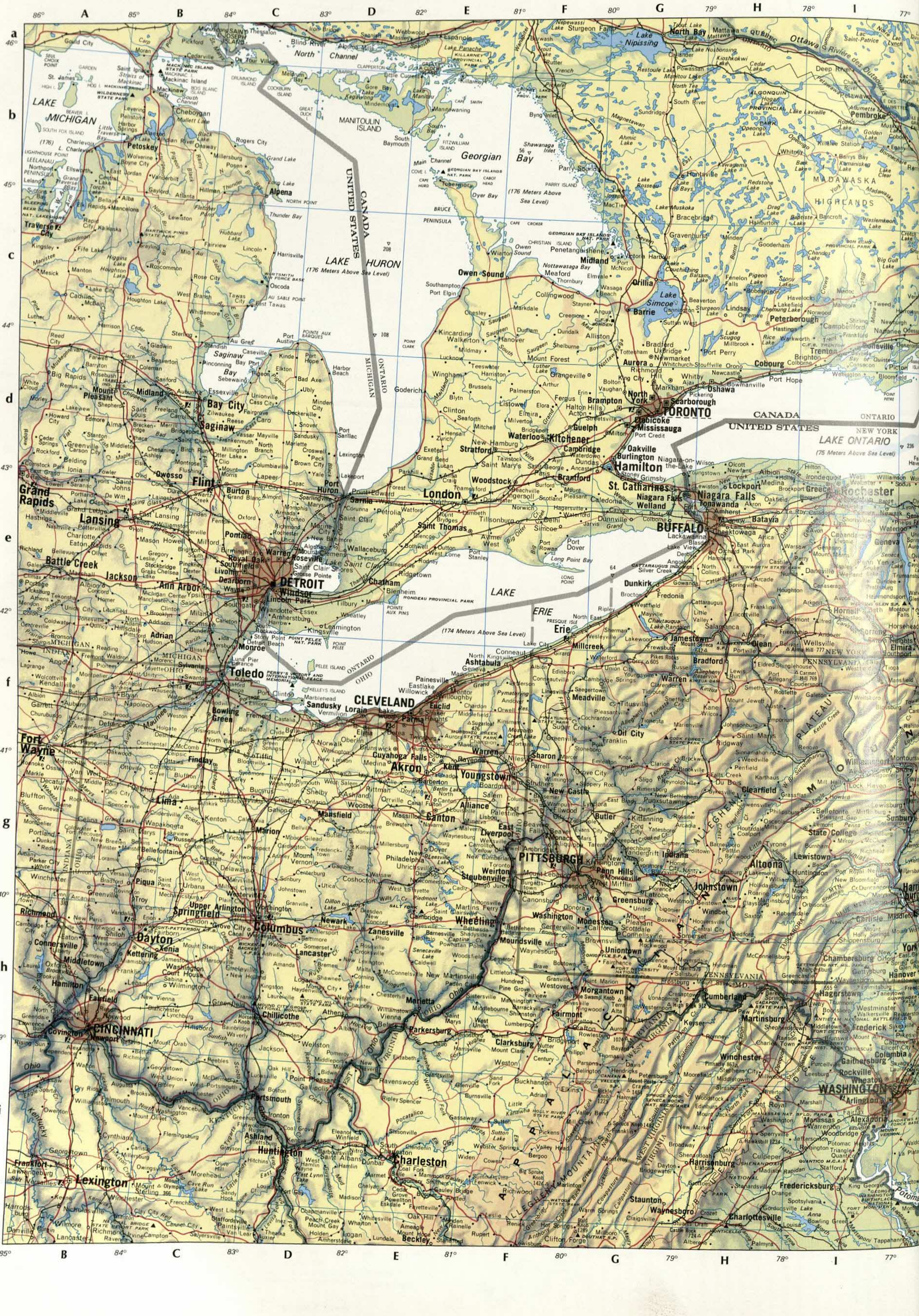


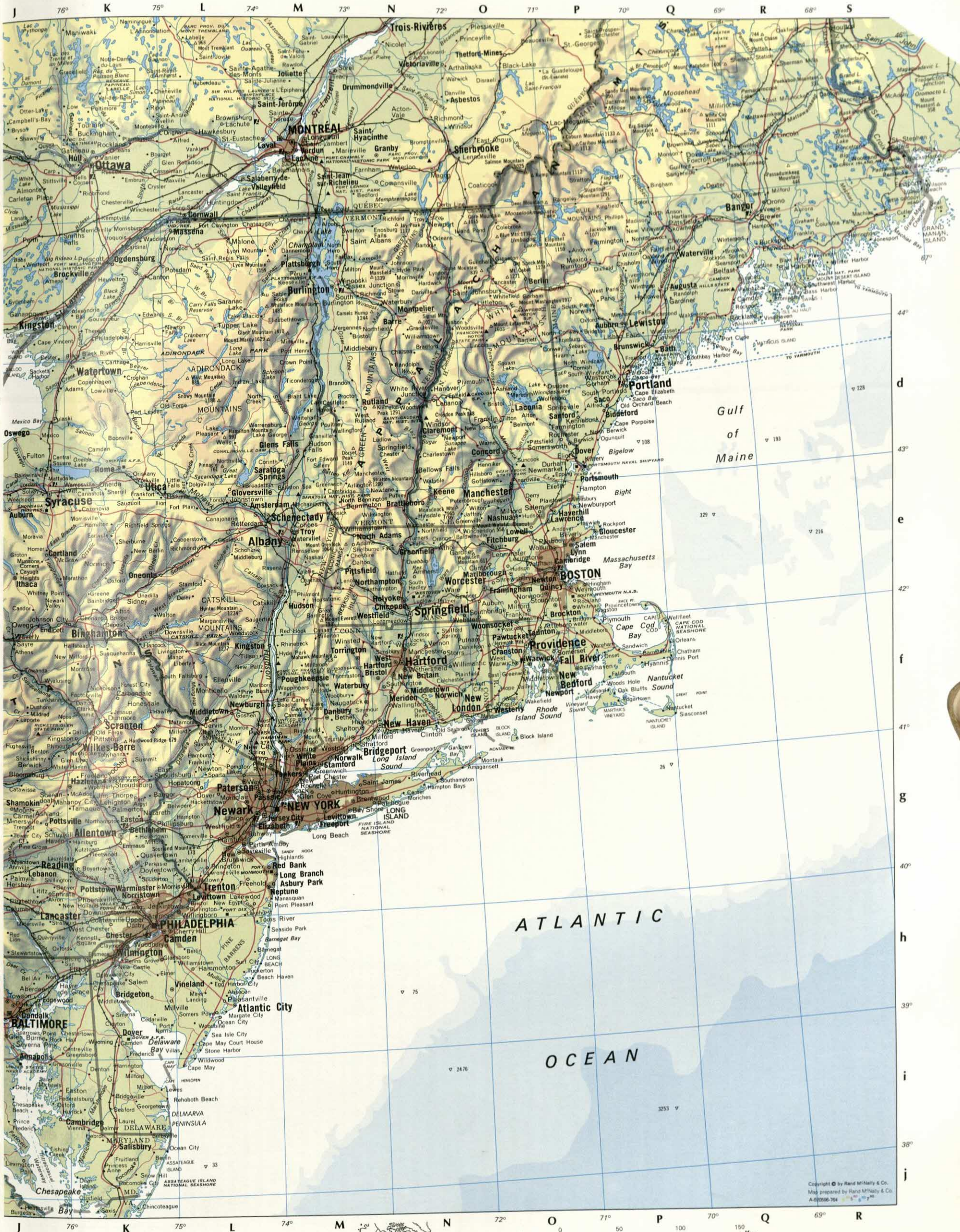


Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Lambert Conformal Conic Projection

Northeastern United States





Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

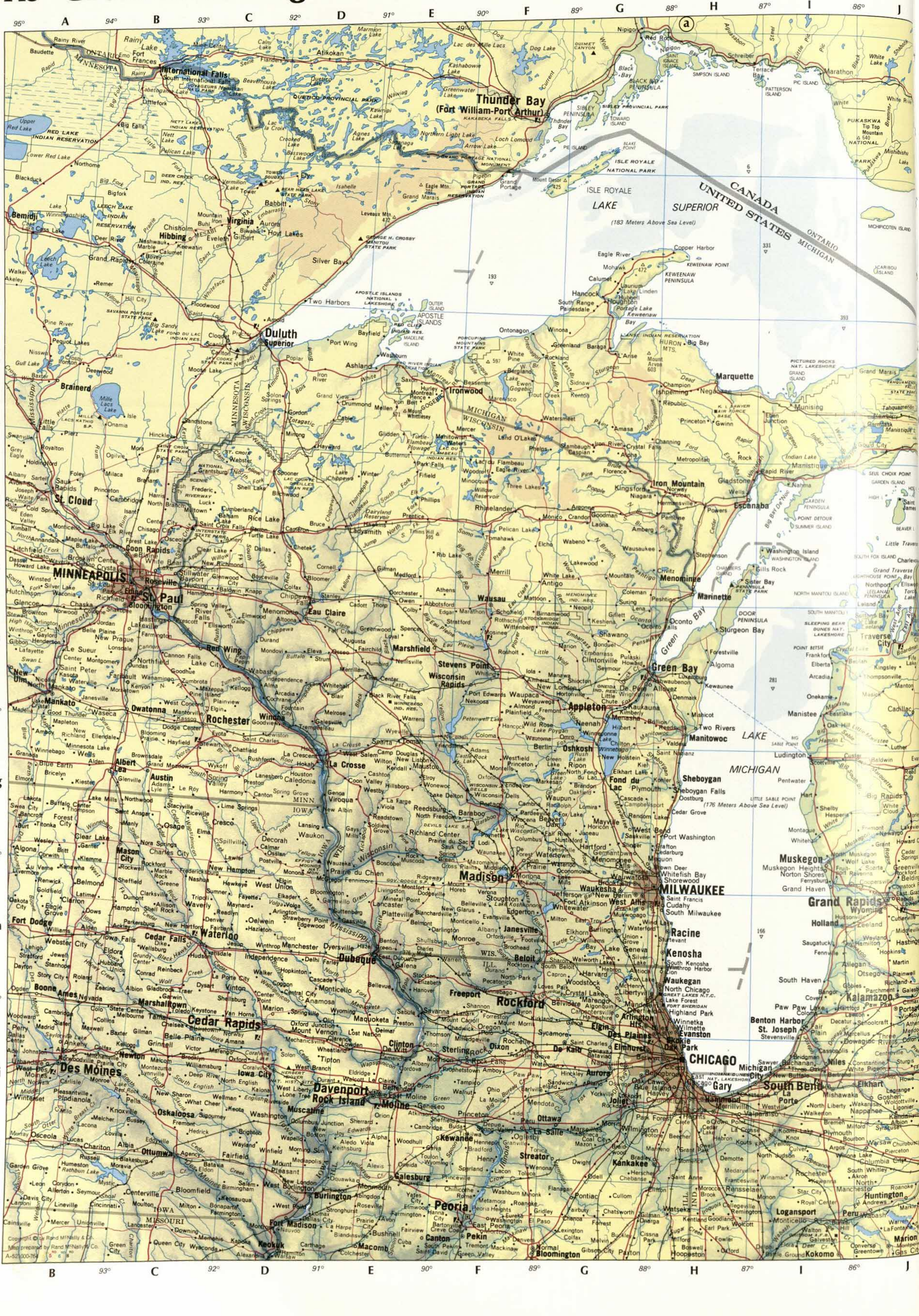
Scale 1:3,000,000

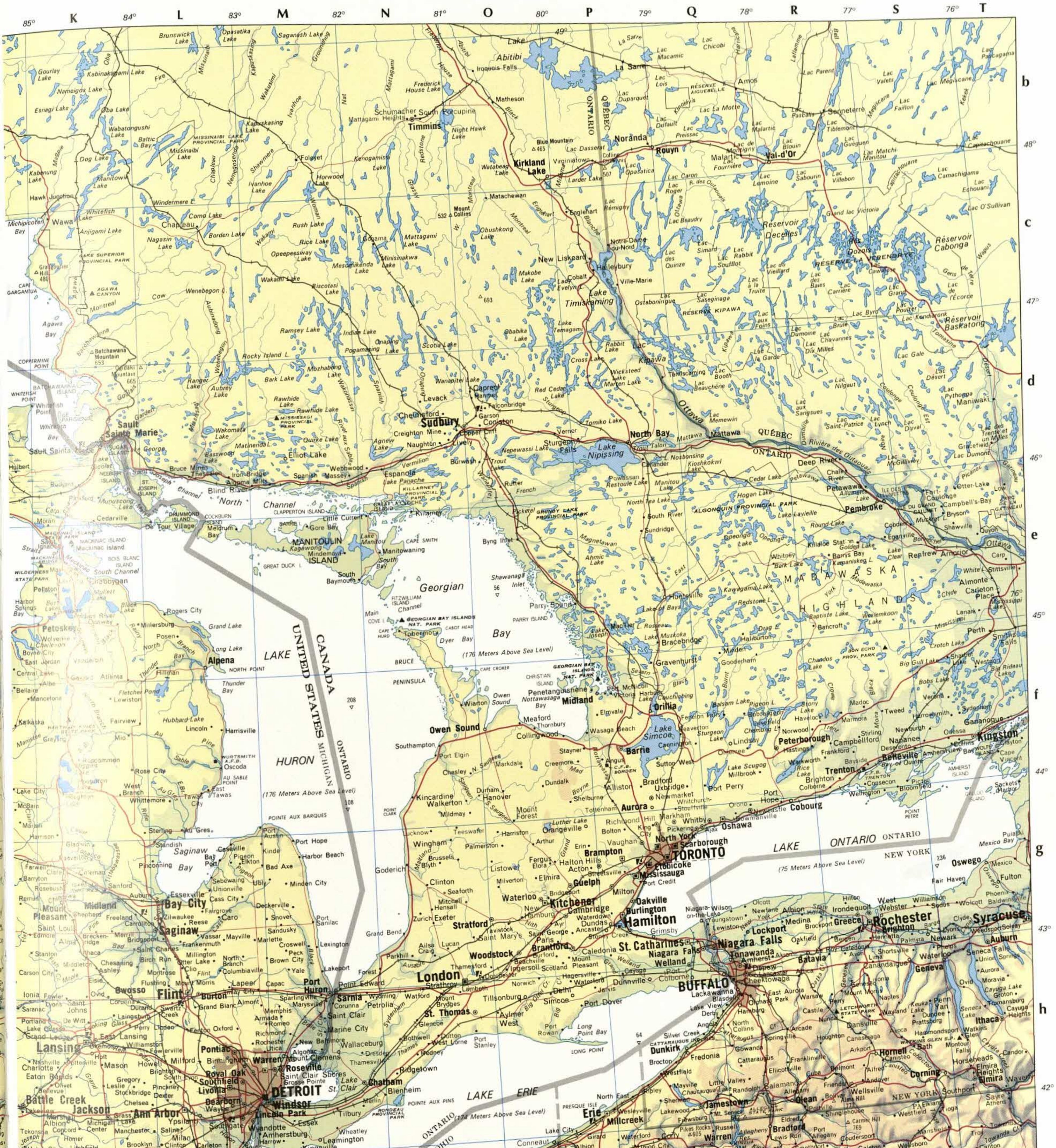
One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

Great Lakes Region





Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

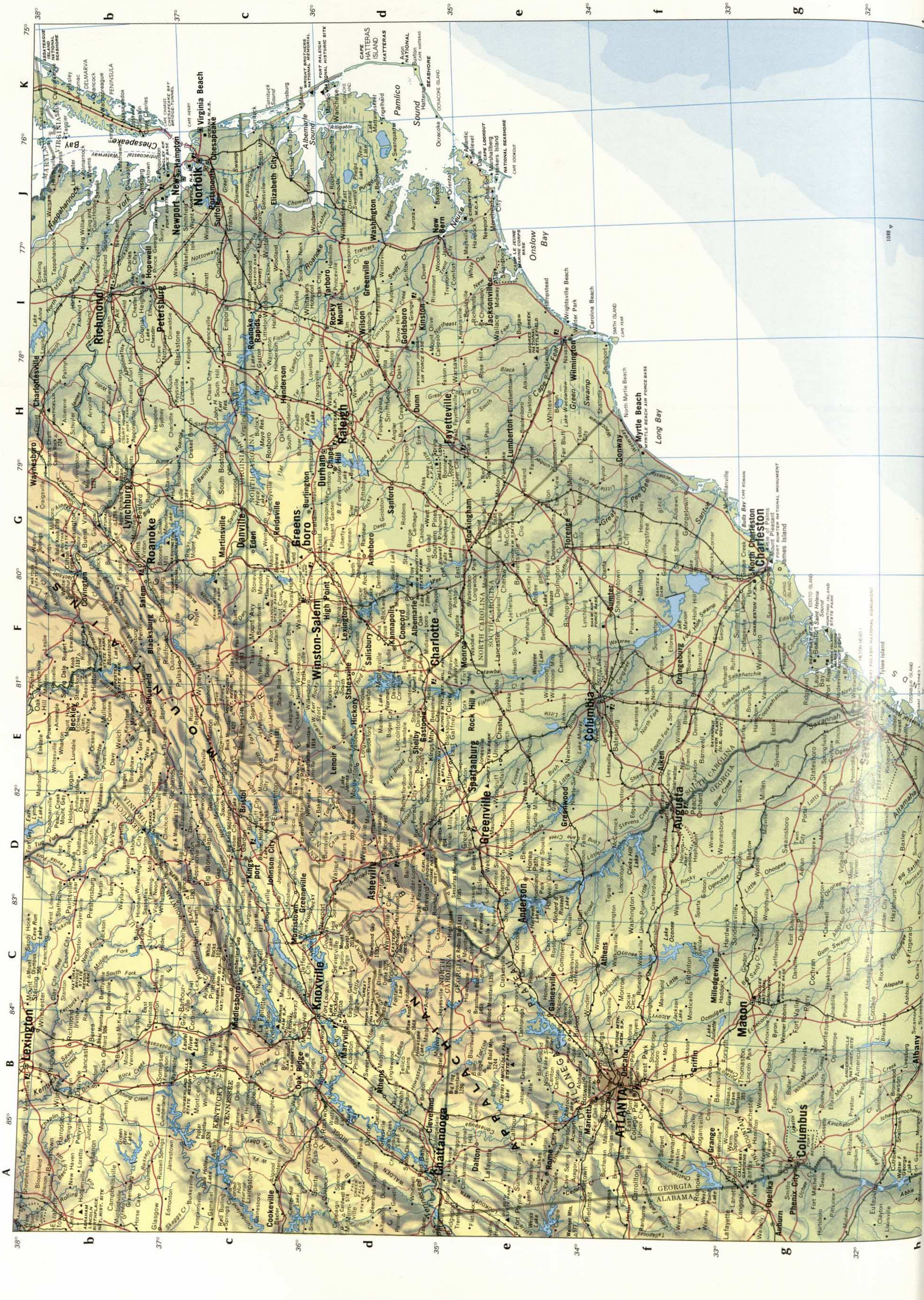
Scale 1:3,000,000

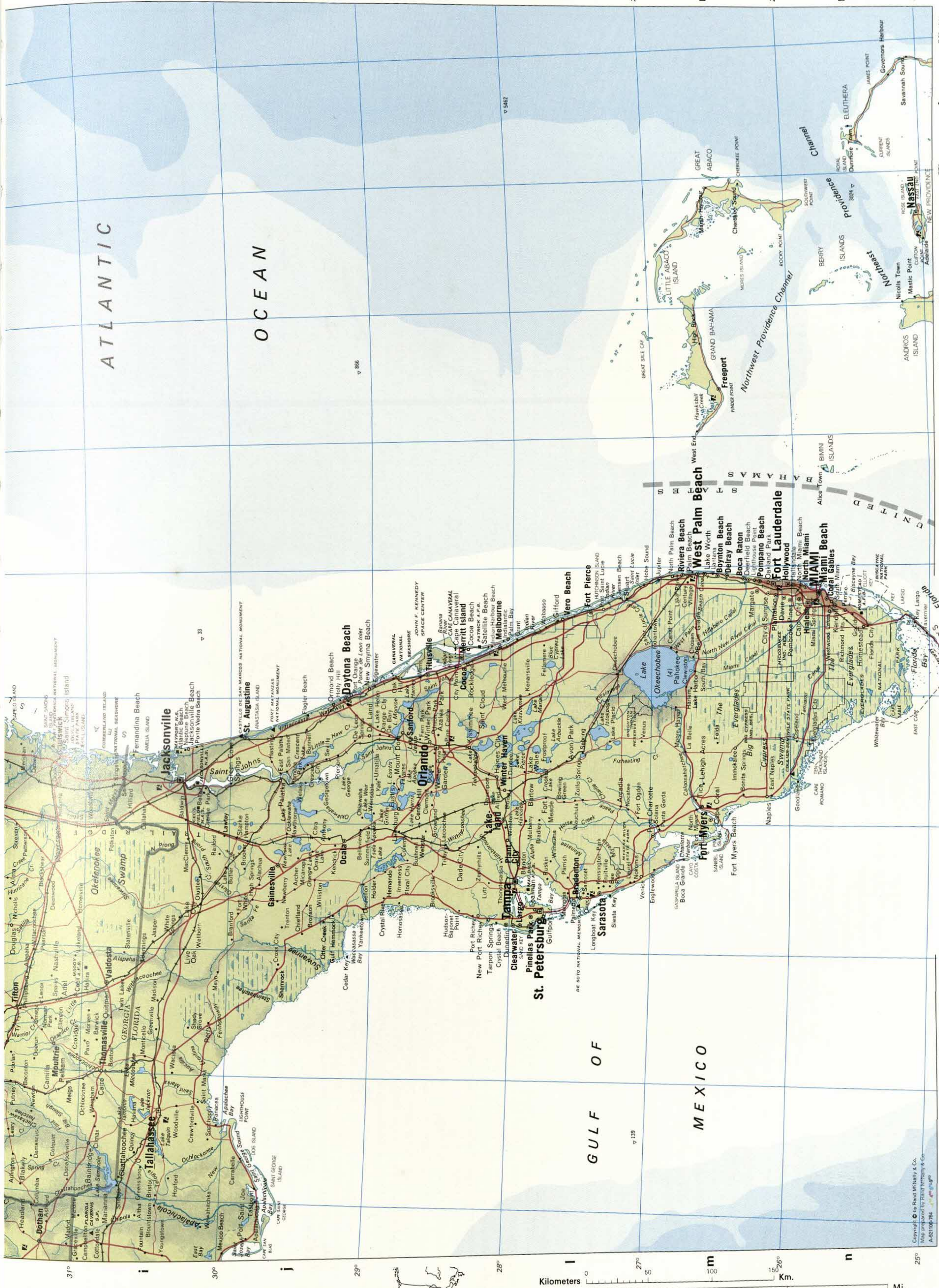
One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

Southeastern United States





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Kilometers 0 50 100 150 Km.

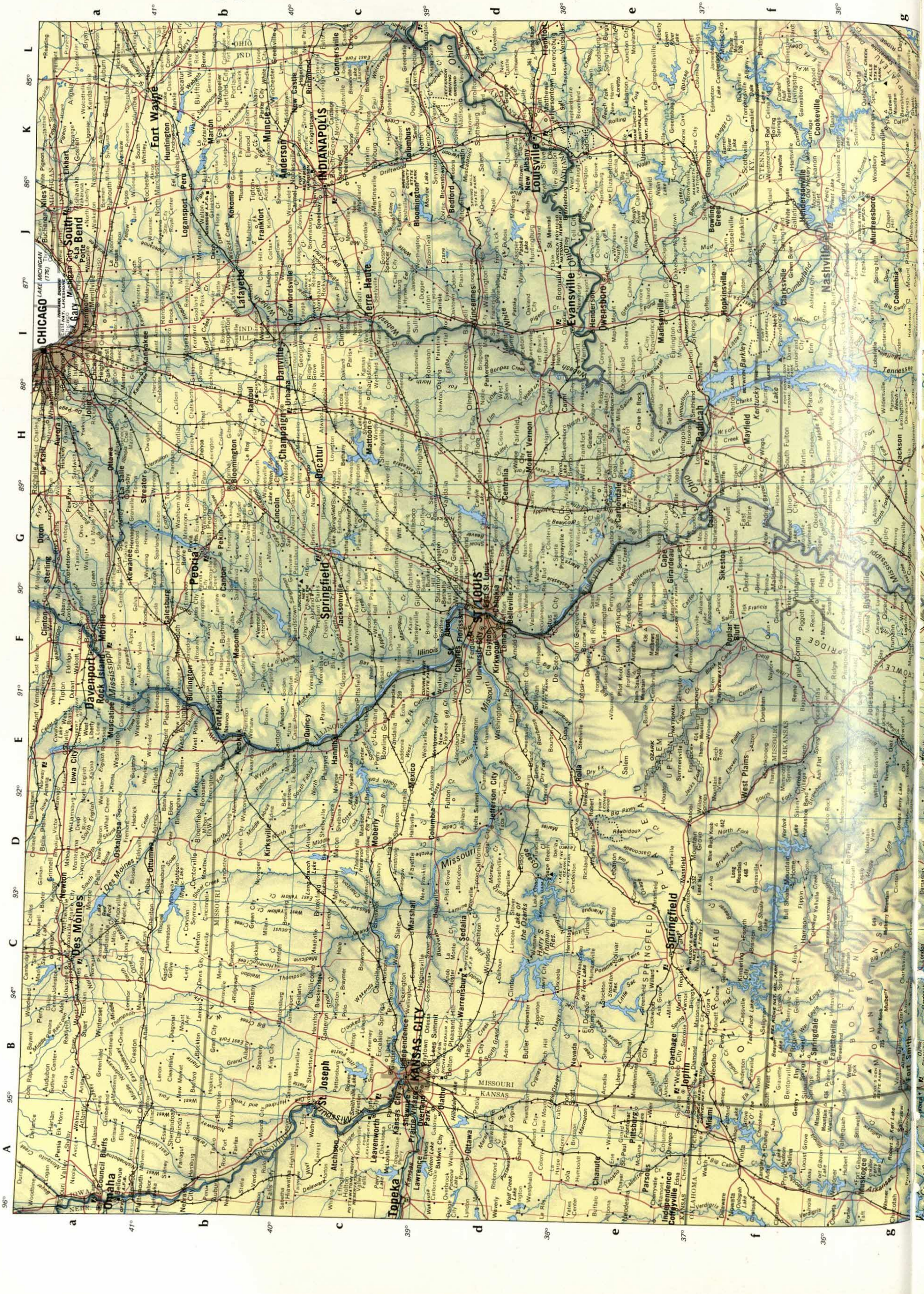
Statute Miles 0 50 100 150 Mi.

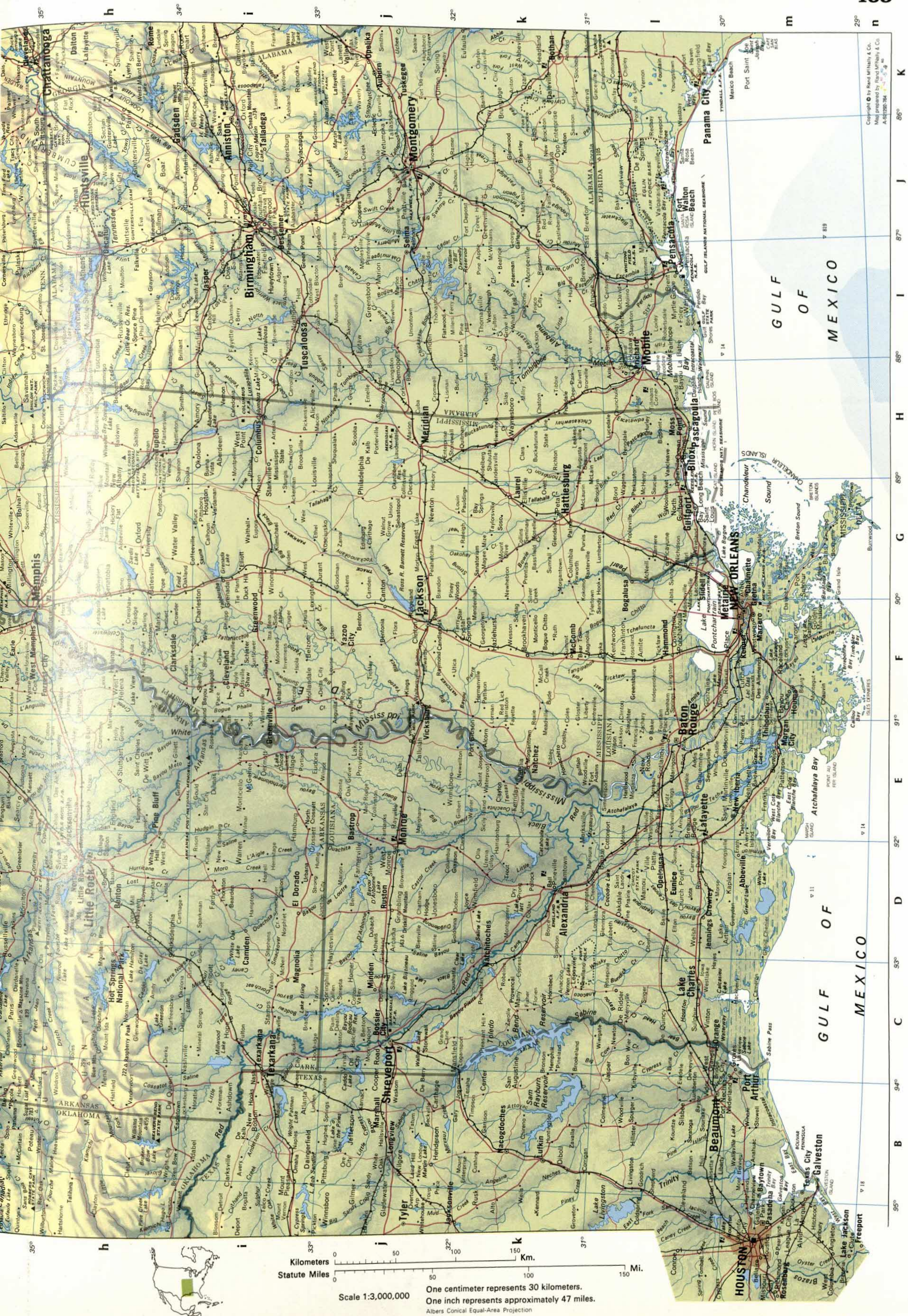
Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

Mississippi Valley





Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Albers Conical Equal-Area Projection

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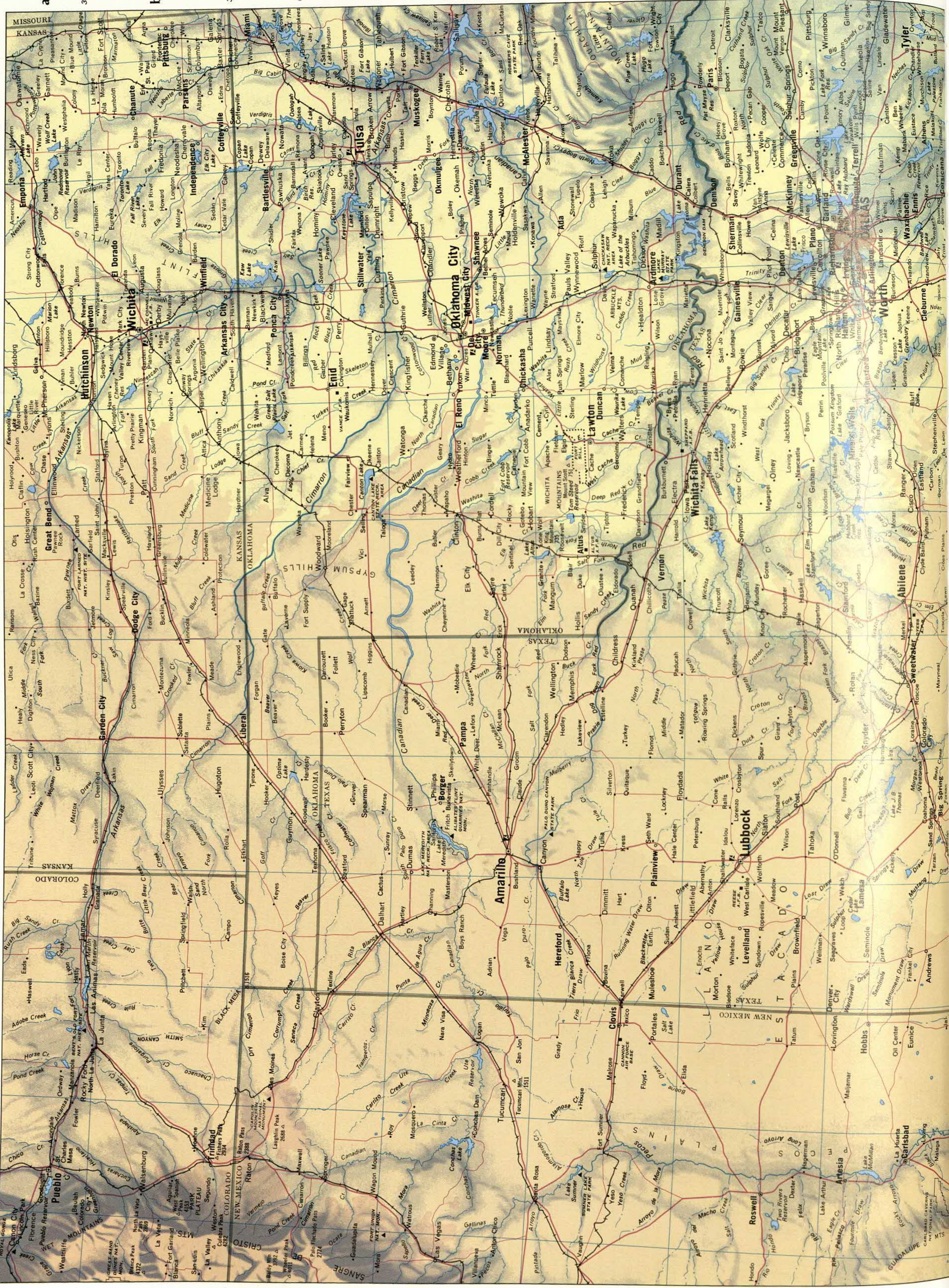
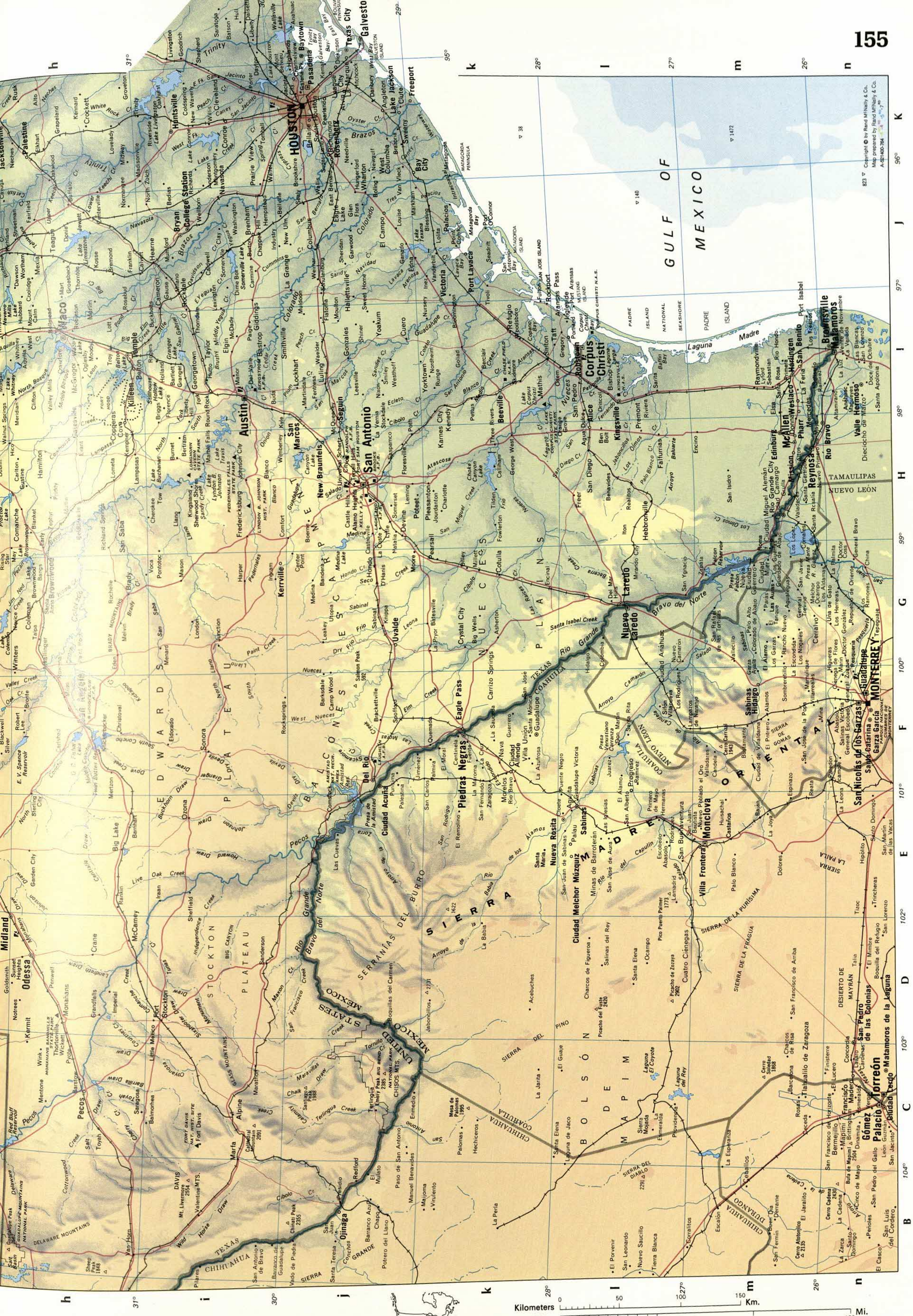
Southern Great Plains





Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

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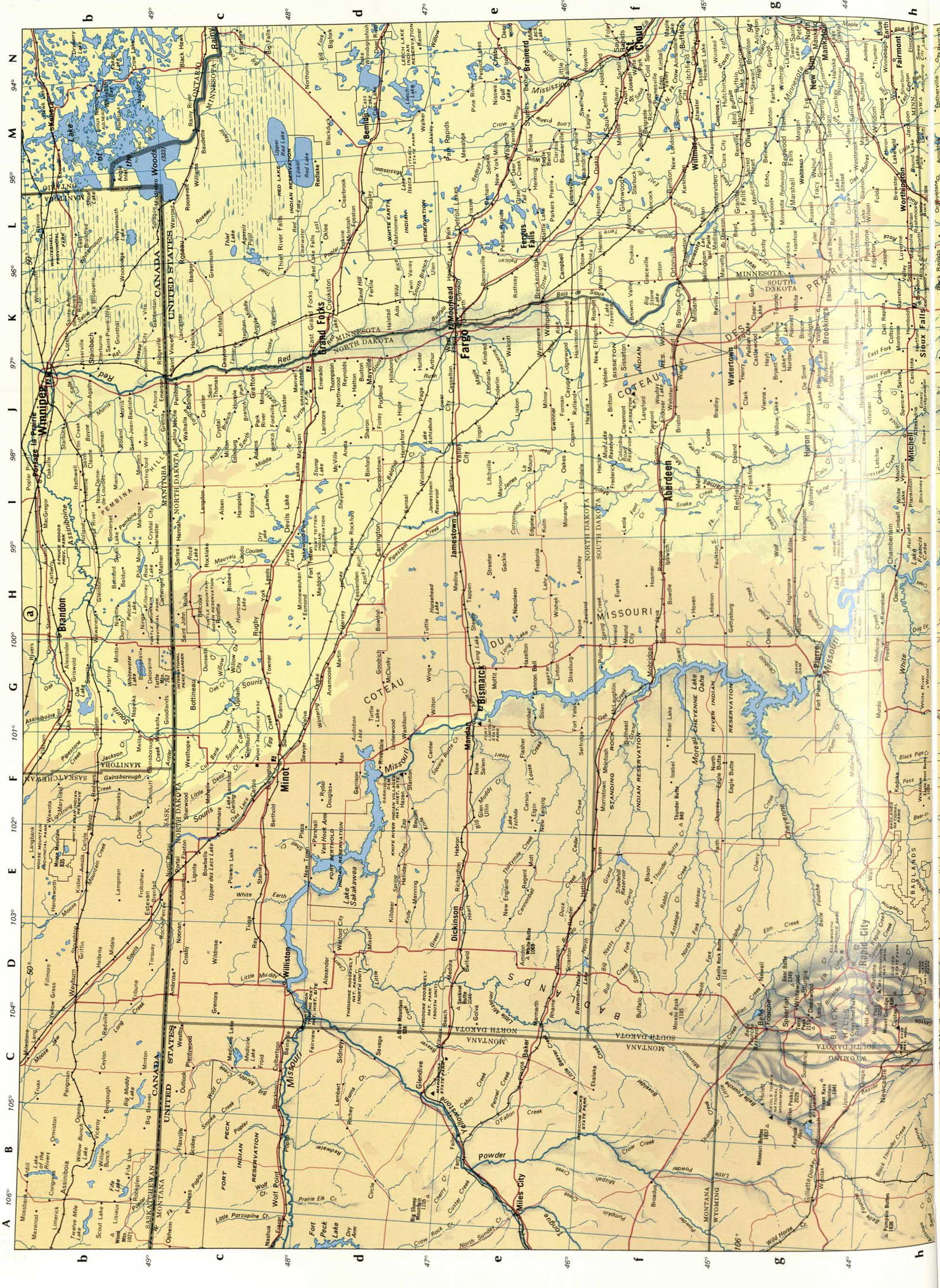
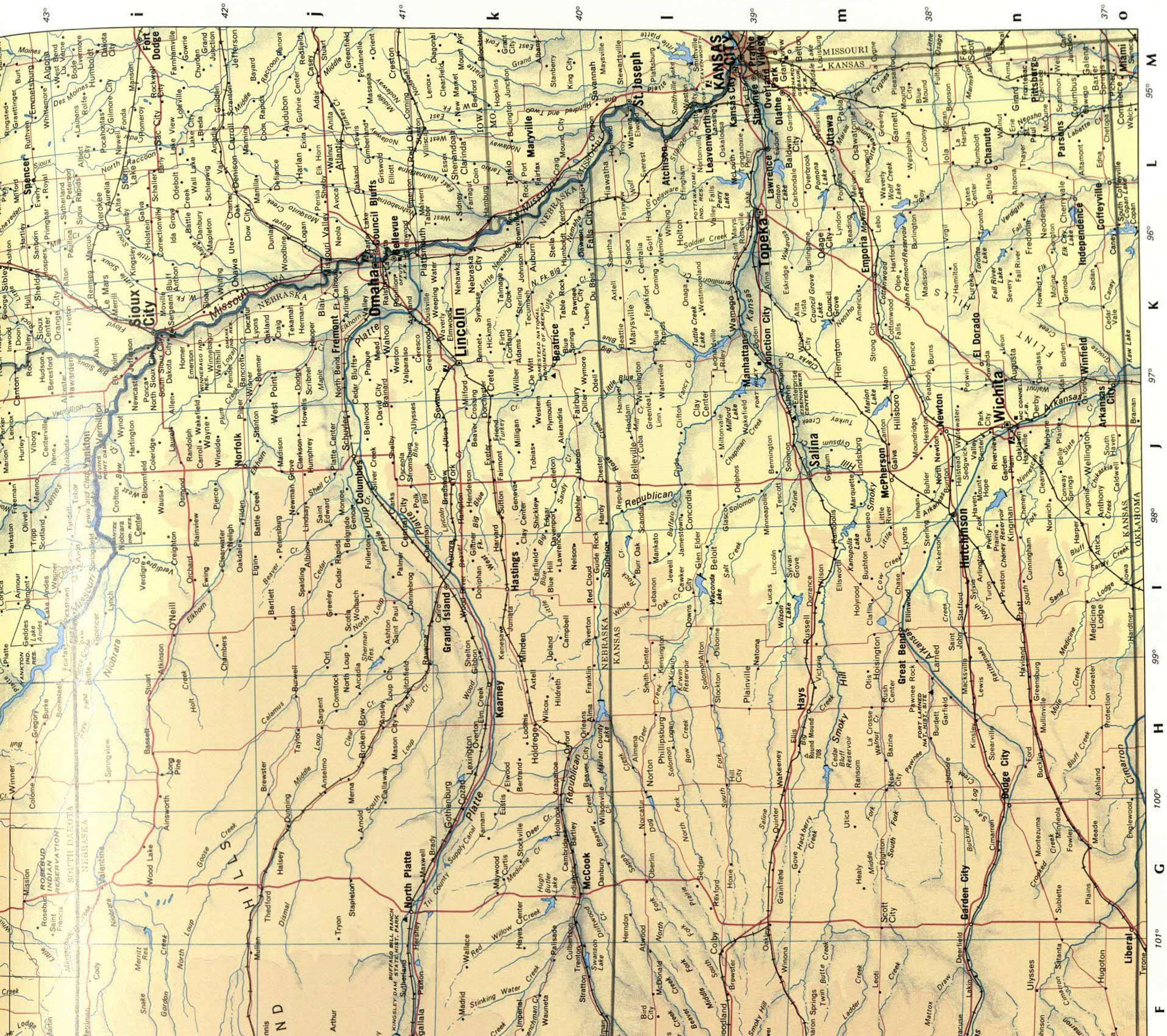
Northern Great Plains





Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

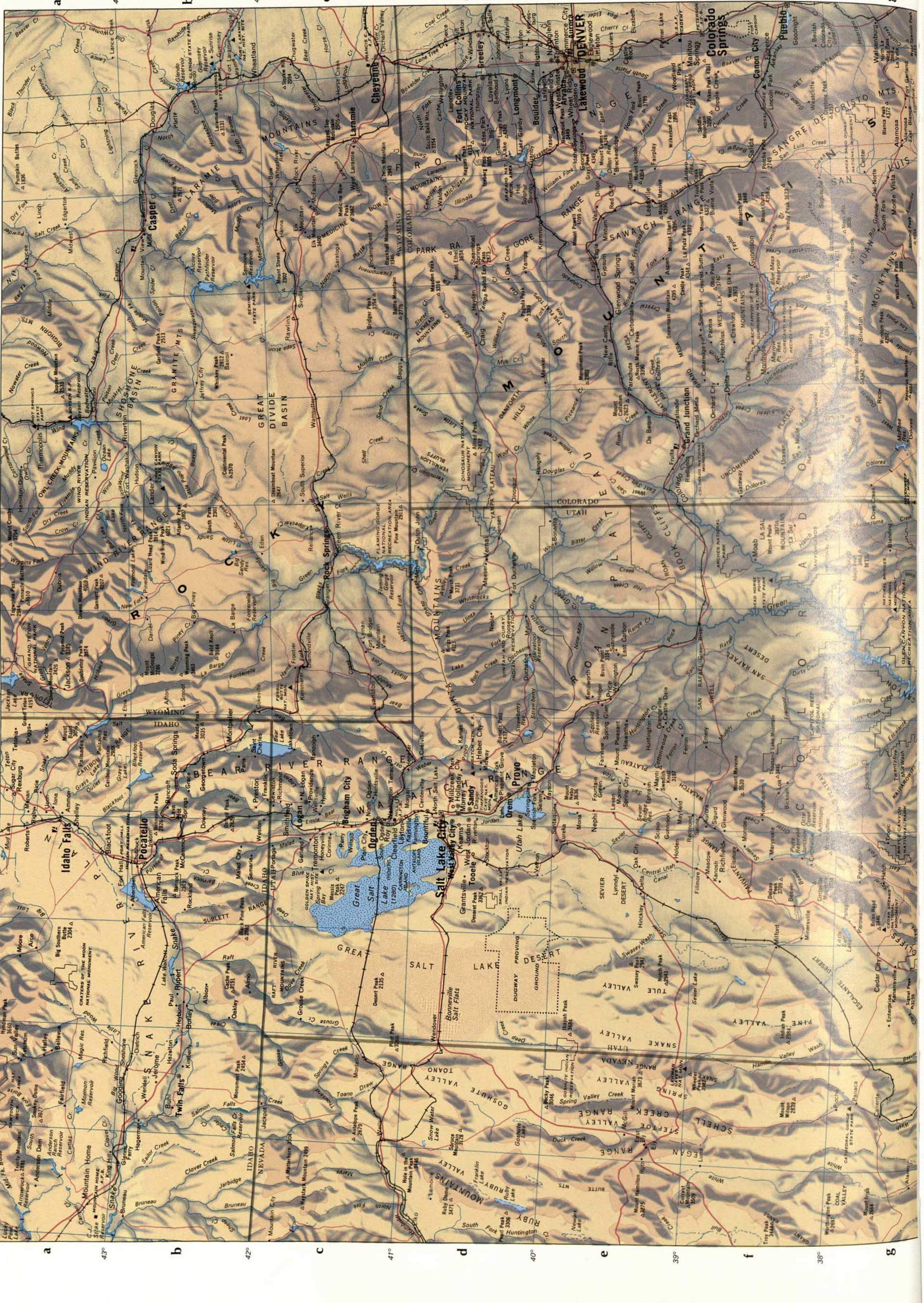
Scale 1:3,000,000

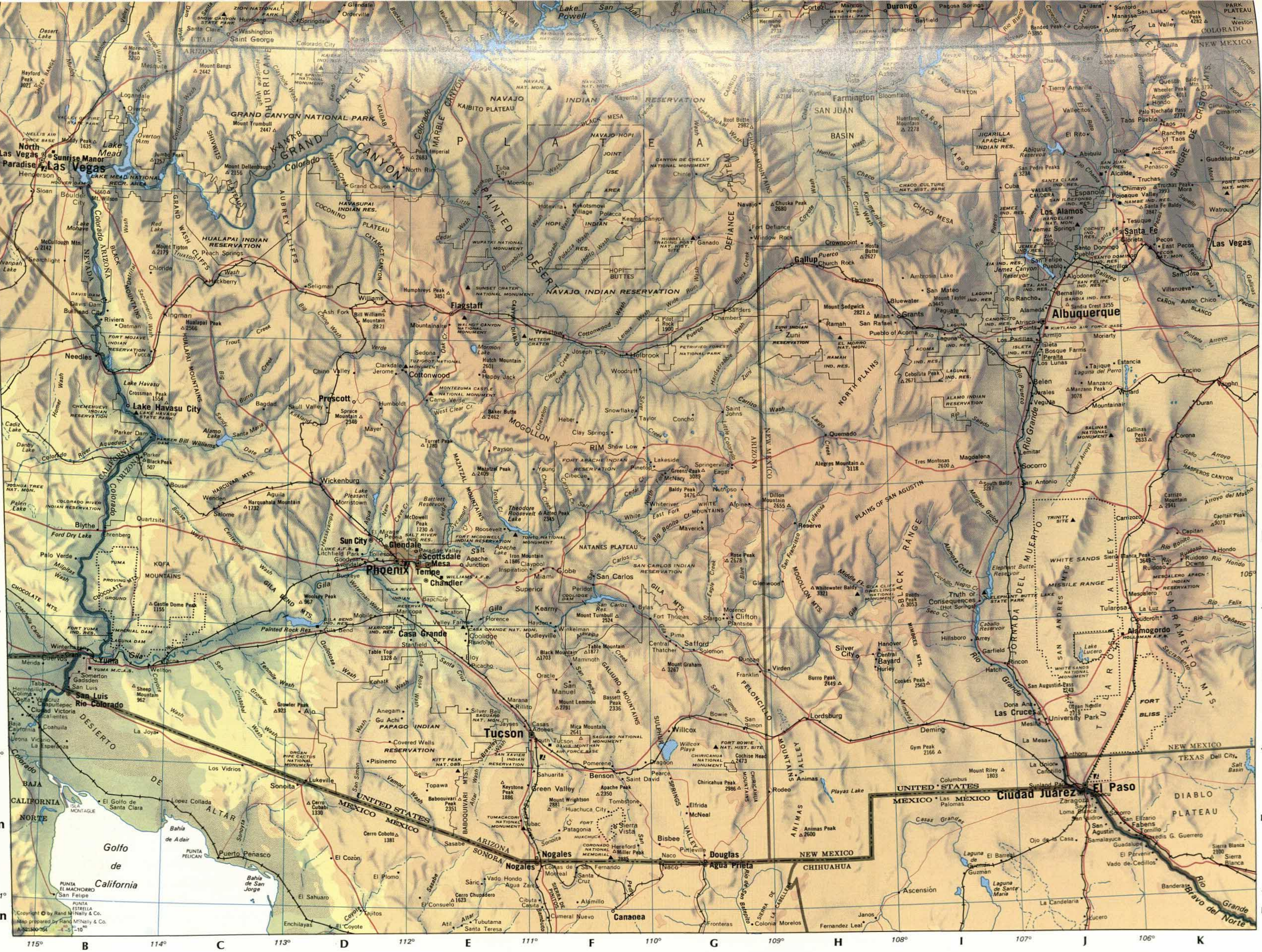
One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

Southern Rocky Mountains





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Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

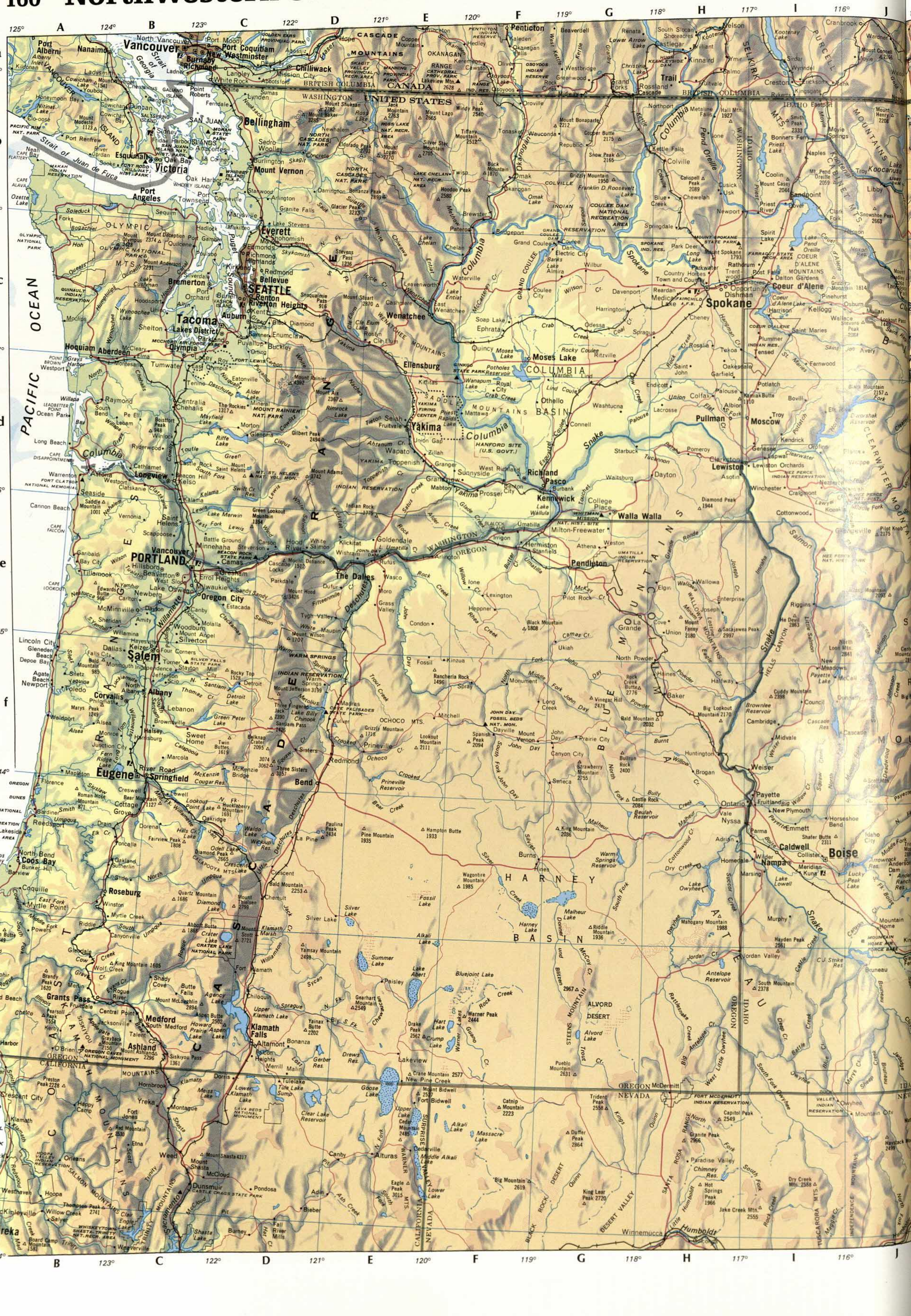
Scale 1:3,000,000

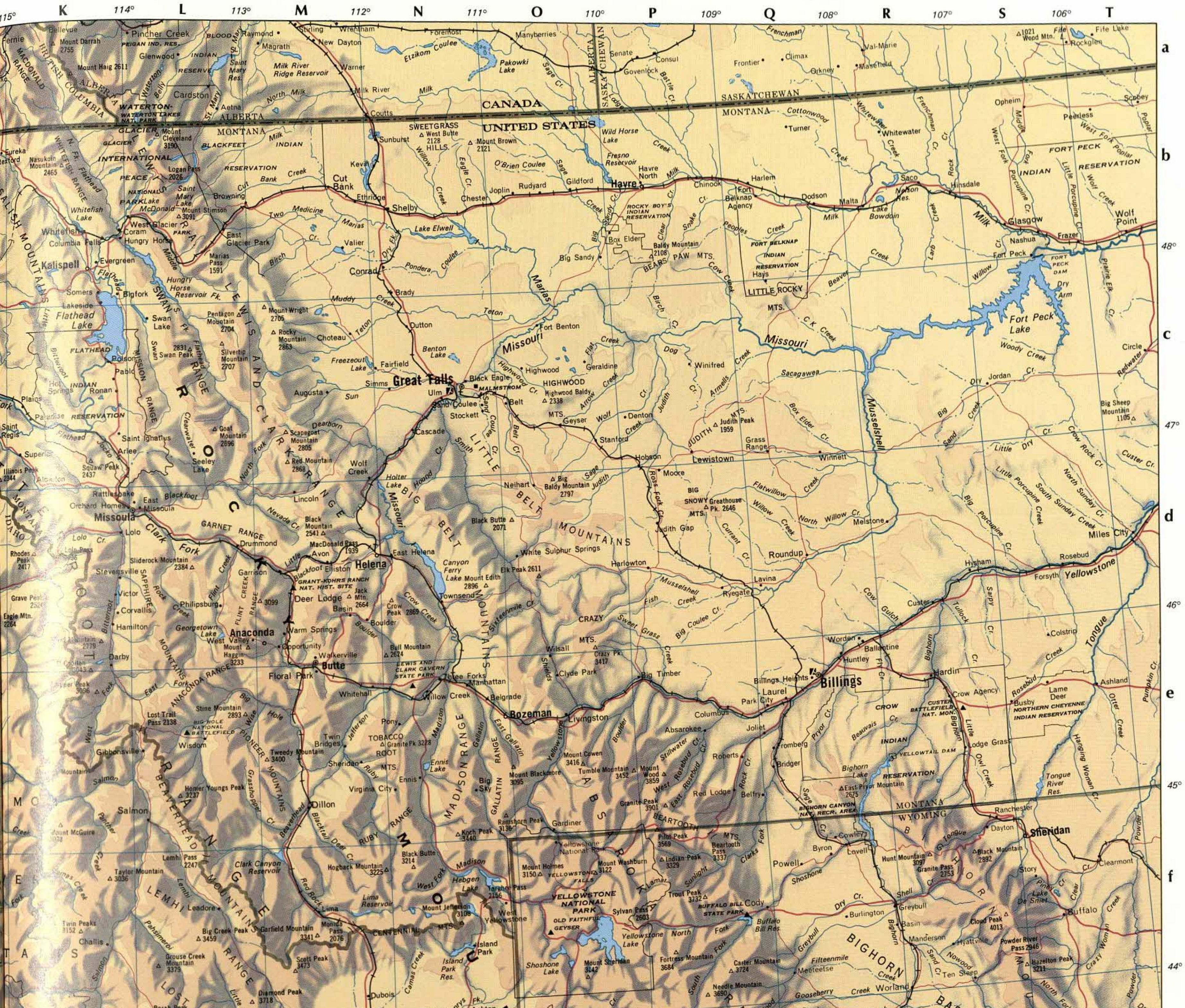
One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

Northwestern United States





Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

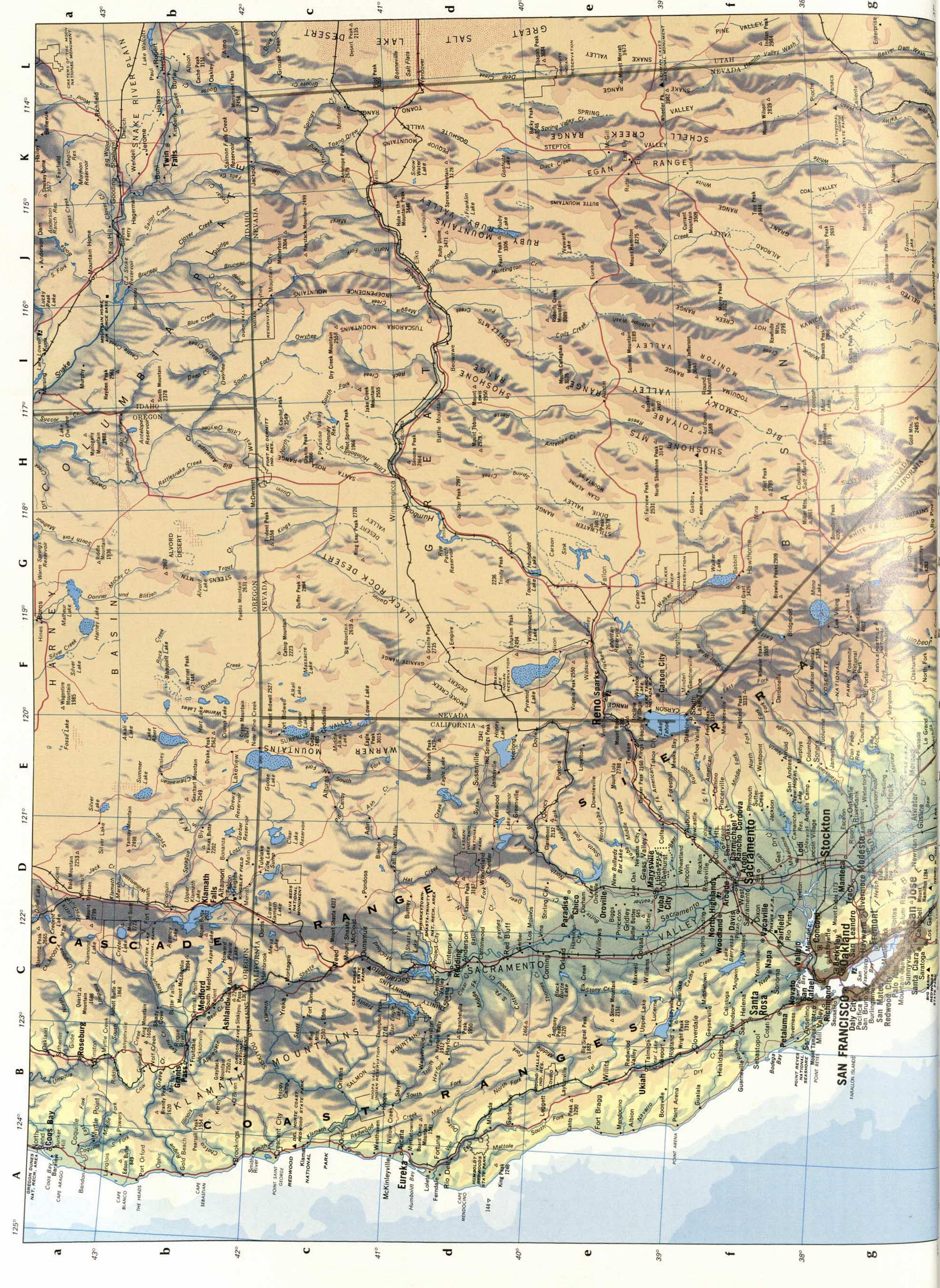
Scale 1:3,000,000

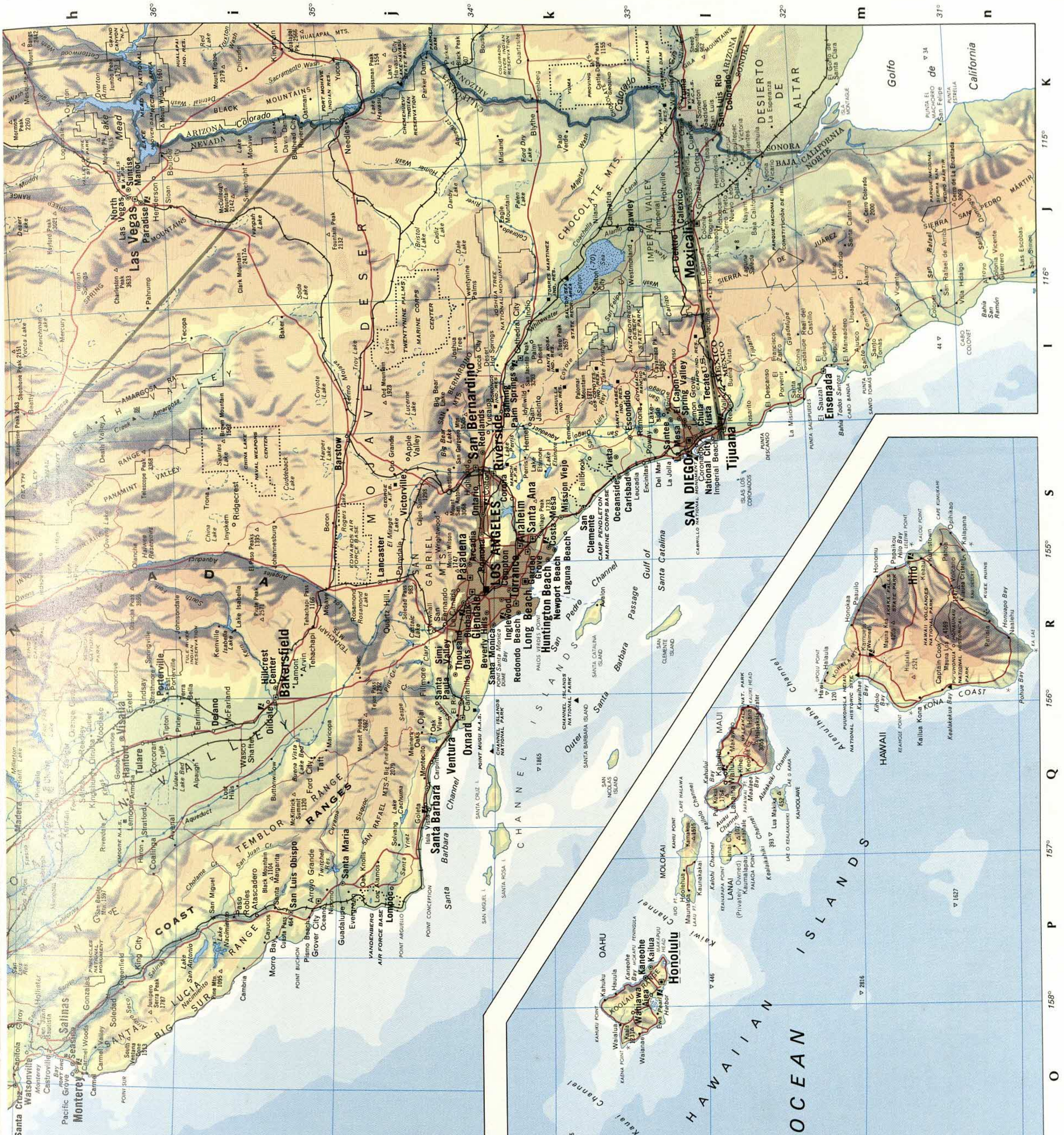
One centimeter represents 30 kilometers.

One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection

California, Nevada, and Hawaii





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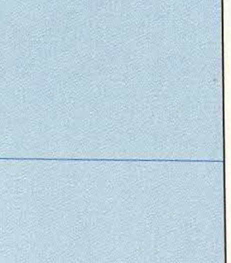
Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

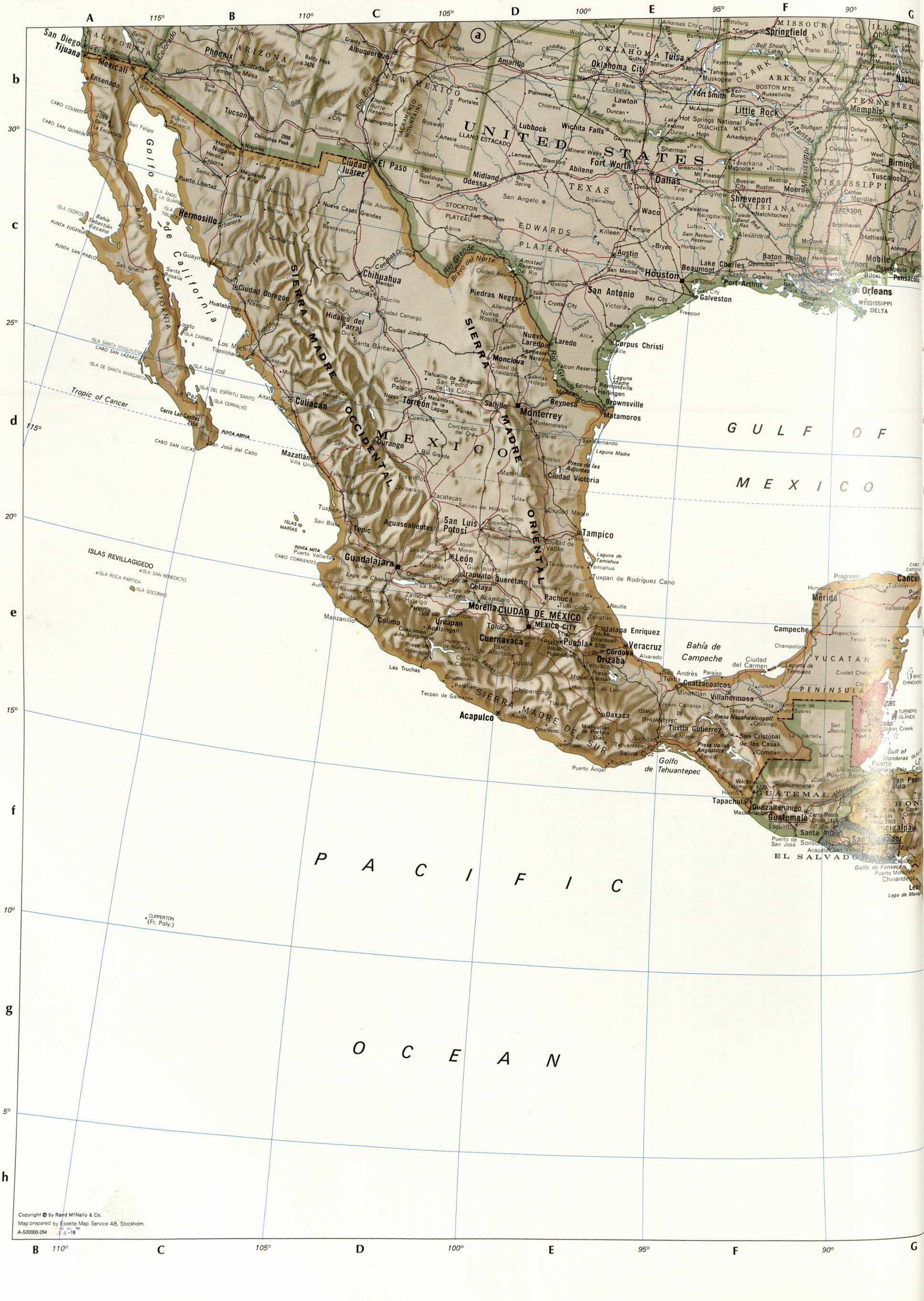
Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

Albers Conical Equal-Area Projection



Middle America and Caribbean



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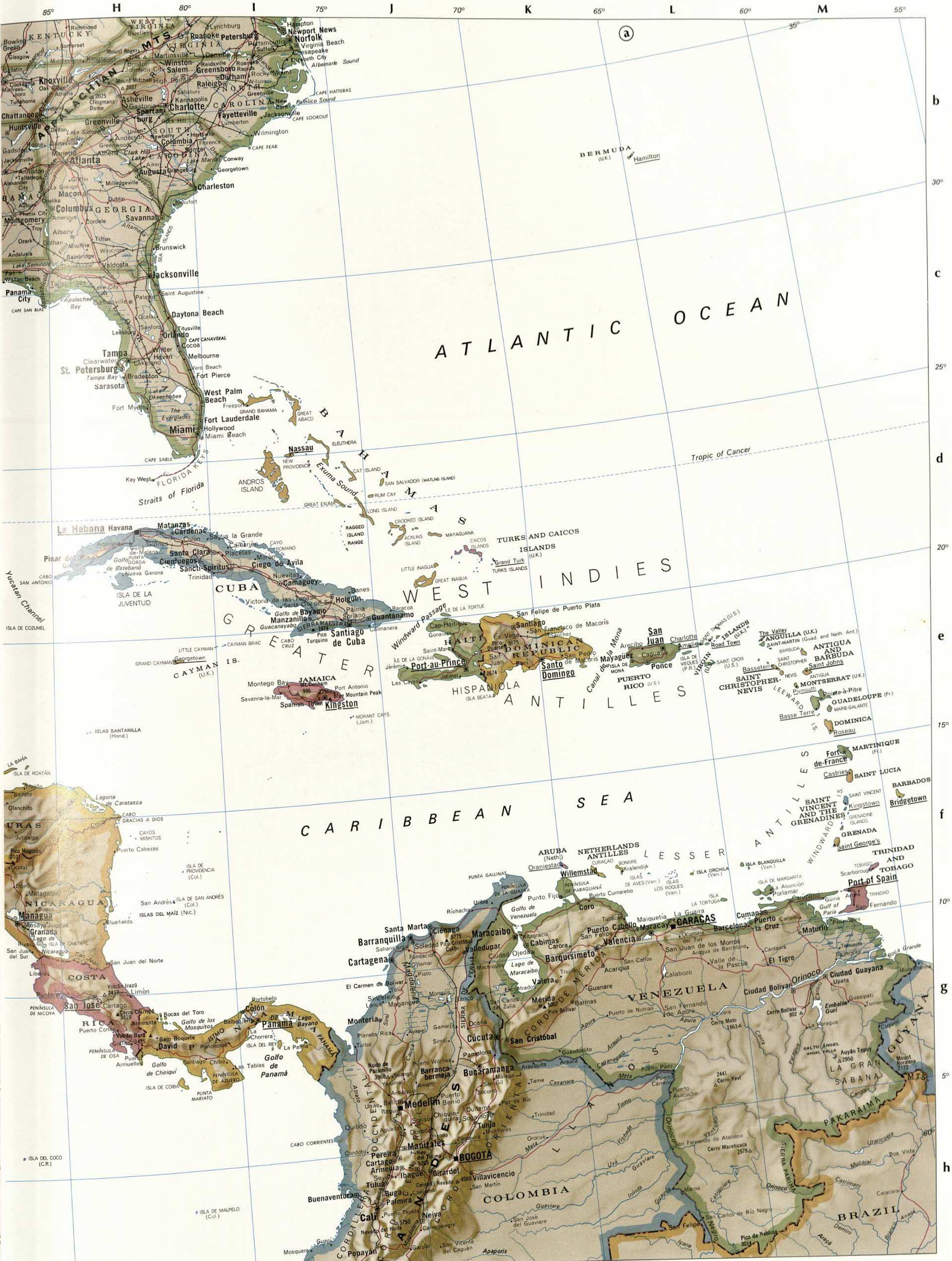


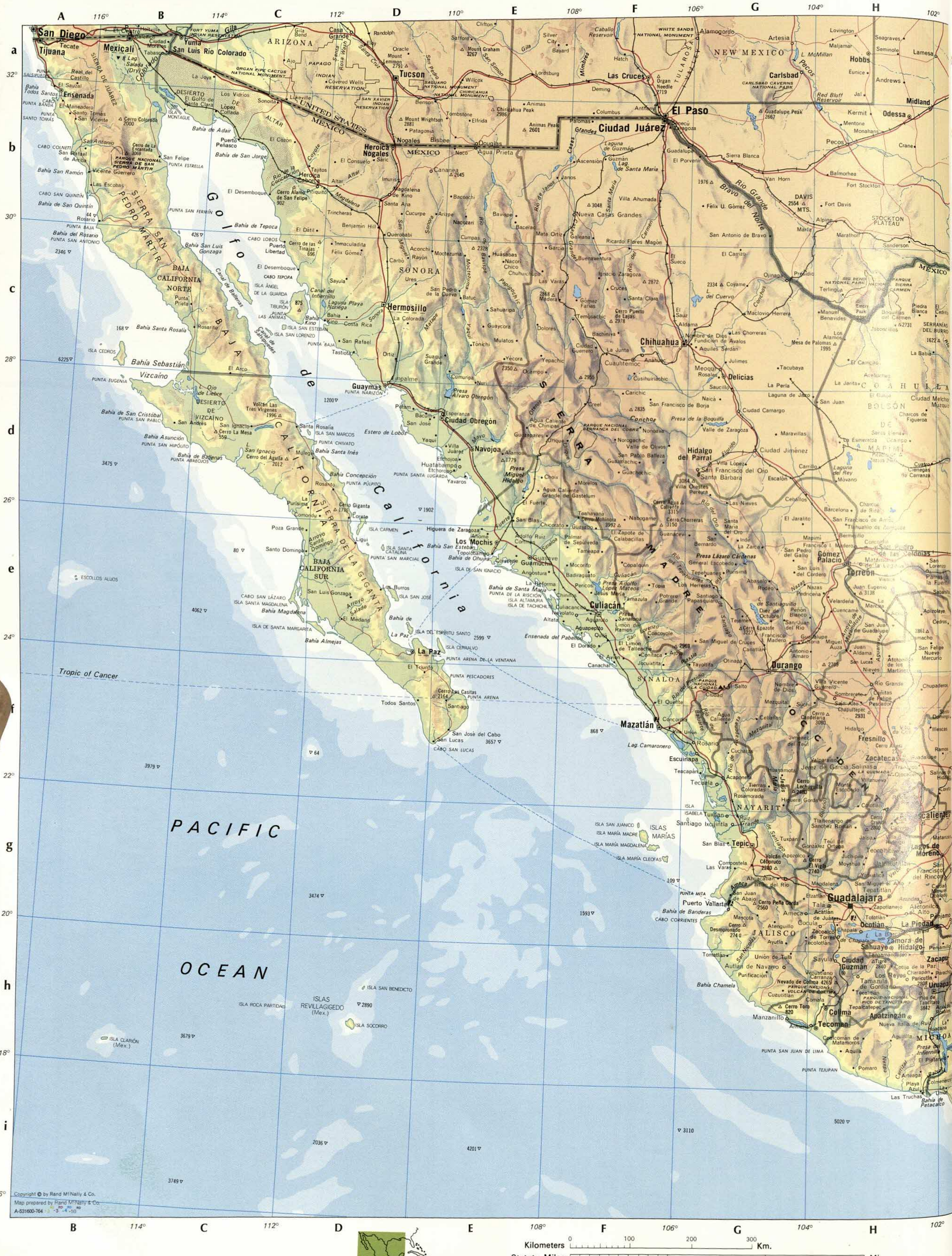
Kilometers 0 200 400 600 Km.

Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000

One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Oblique Conic Conformal Projection

Mexico



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Map prepared by Rand McNally & Co.
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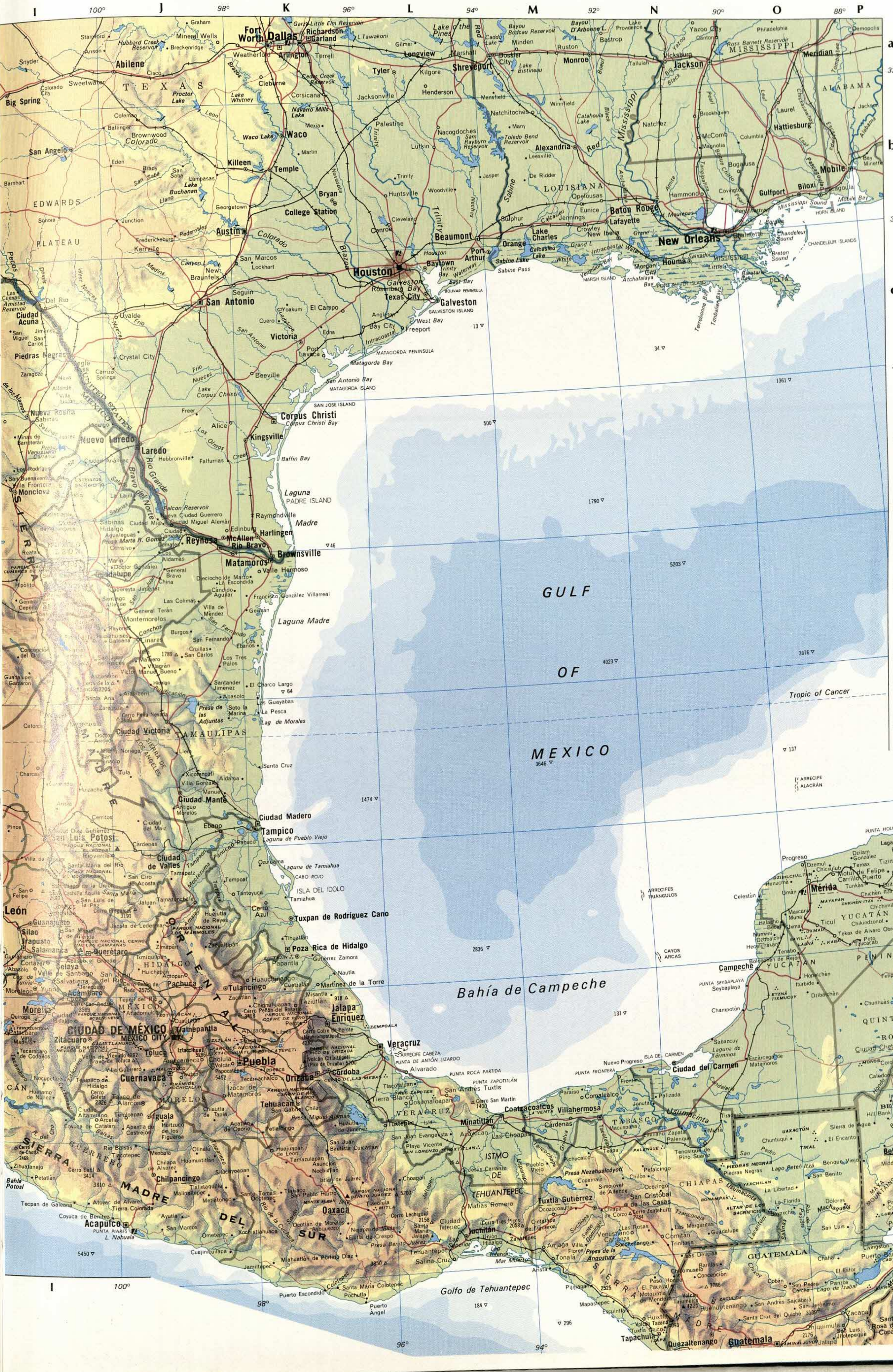
Kilometers 0 100 200 300 Km.
Statute Miles 0 100 200 300 Mi.

Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Lambert Conformal Conic Projection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OF
MEXICO
Bahía de Campeche
Golfo de Tehuantepec
Gulf of Honduras
Tropic of Cancer
TEXAS
LOUISIANA
MISSISSIPPI
ALABAMA
EDWARDS
PLATEAU
Fort Worth
Dallas
Richardson
Garland
Arlington
Abilene
Big Spring
San Angelo
Waco
Killeen
Temple
Bryan
College Station
Austin
San Antonio
Houston
Baytown
Galveston
Texas City
Beaumont
Port Arthur
Orange
Lake Charles
Corpus Christi
Kingsville
Laredo
Harlingen
Brownsville
McAllen
Victoria
Tyler
Longview
Shreveport
Monroe
Alexandria
Lafayette
Baton Rouge
New Orleans
Houma
Jackson
Meridian
Hattiesburg
Gulfport
Biloxi
Mobile
Vicksburg
Natchez
Sabine Lake
Lake Pontchartrain
Matagorda Bay
Galveston Bay
Laguna Madre
PADRE ISLAND
Rio Grande
Nuevo Laredo
Reynosa
Matamoros
Monclova
Piedras Negras
Ciudad Acuña
Ciudad Victoria
TAMAULIPAS
Ciudad Mante
Ciudad Madero
Tampico
Laguna de Tamiahua
Tuxpan de Rodríguez Cano
Poza Rica de Hidalgo
Ciudad de Valles
San Luis Potosí
León
Salamanca
Celaya
Querétaro
Pachuca
Tulancingo
HIDALGO
Jalapa Enríquez
Veracruz
Córdoba
Orizaba
Puebla
Tlalnepantla
CIUDAD DE MÉXICO
MEXICO CITY
Toluca
Cuernavaca
MORELOS
Tehuacán
Iguala
Chilpancingo
Acapulco
Oaxaca
Juchitán
Salina Cruz
Tehuantepec
ISTMO DE TEHUANTEPEC
SIERRA MADRE ORIENTAL
SIERRA MADRE DEL SUR
Minatitlán
Coatzacoalcos
Villahermosa
TABASCO
Ciudad del Carmen
Campeche
Champotón
Mérida
Progreso
Valladolid
Cancún
Cozumel
YUCATÁN
PENINSULA
QUINTANA ROO
Ciudad Chetumal
Chetumal Bay
Tuxtla Gutiérrez
San Cristóbal de las Casas
CHIAPAS
Tapachula
Usumacinta
BELIZE
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Belmopan
GUATEMALA
Guatemala
Quezaltenango
Flores
Lago Petén Itzá
HONDURAS
San Pedro Sula
Puerto Cortés
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ARRECIFES TRIÁNGULOS
CAYOS ARCAS
CABO CATOCHE
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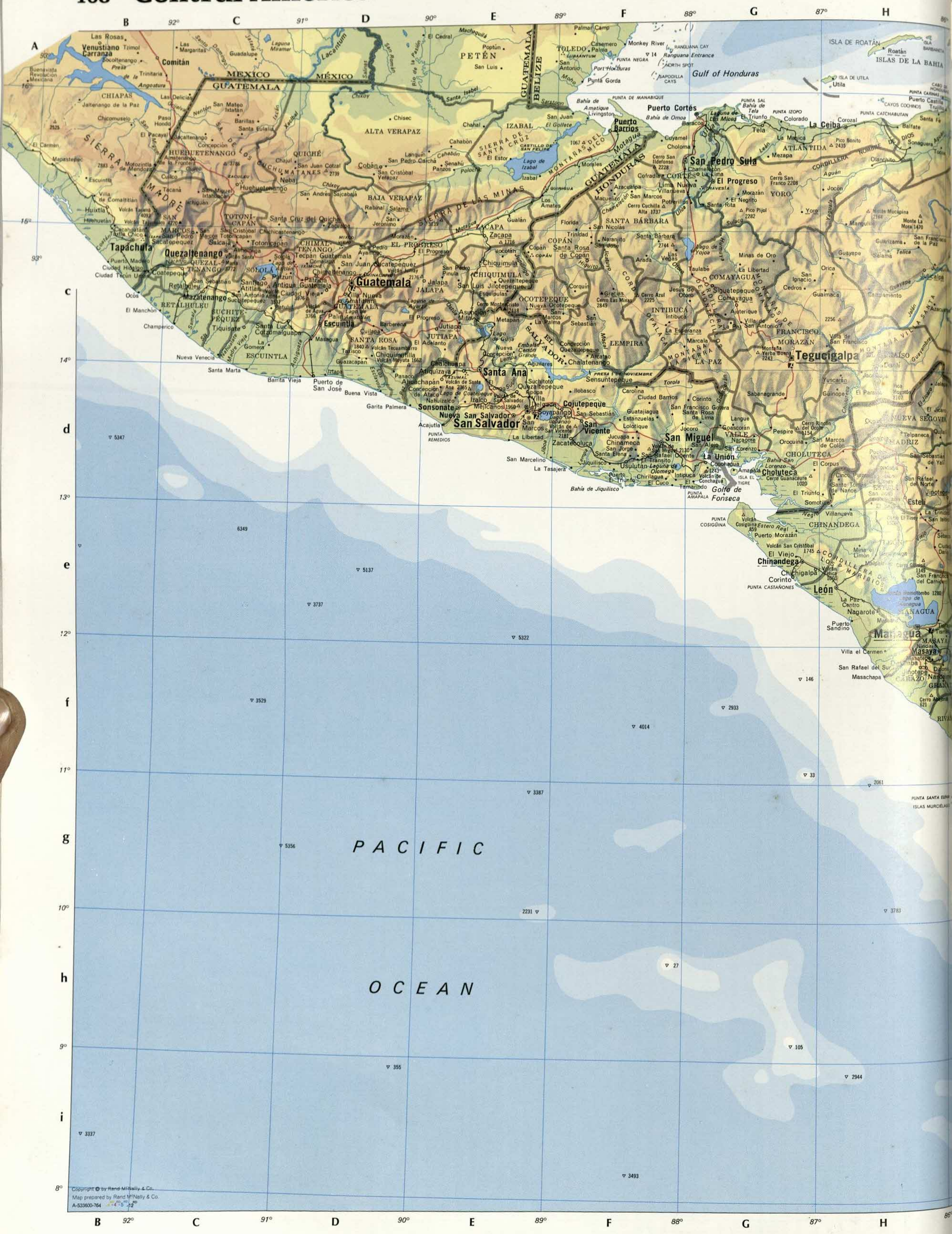
Central America



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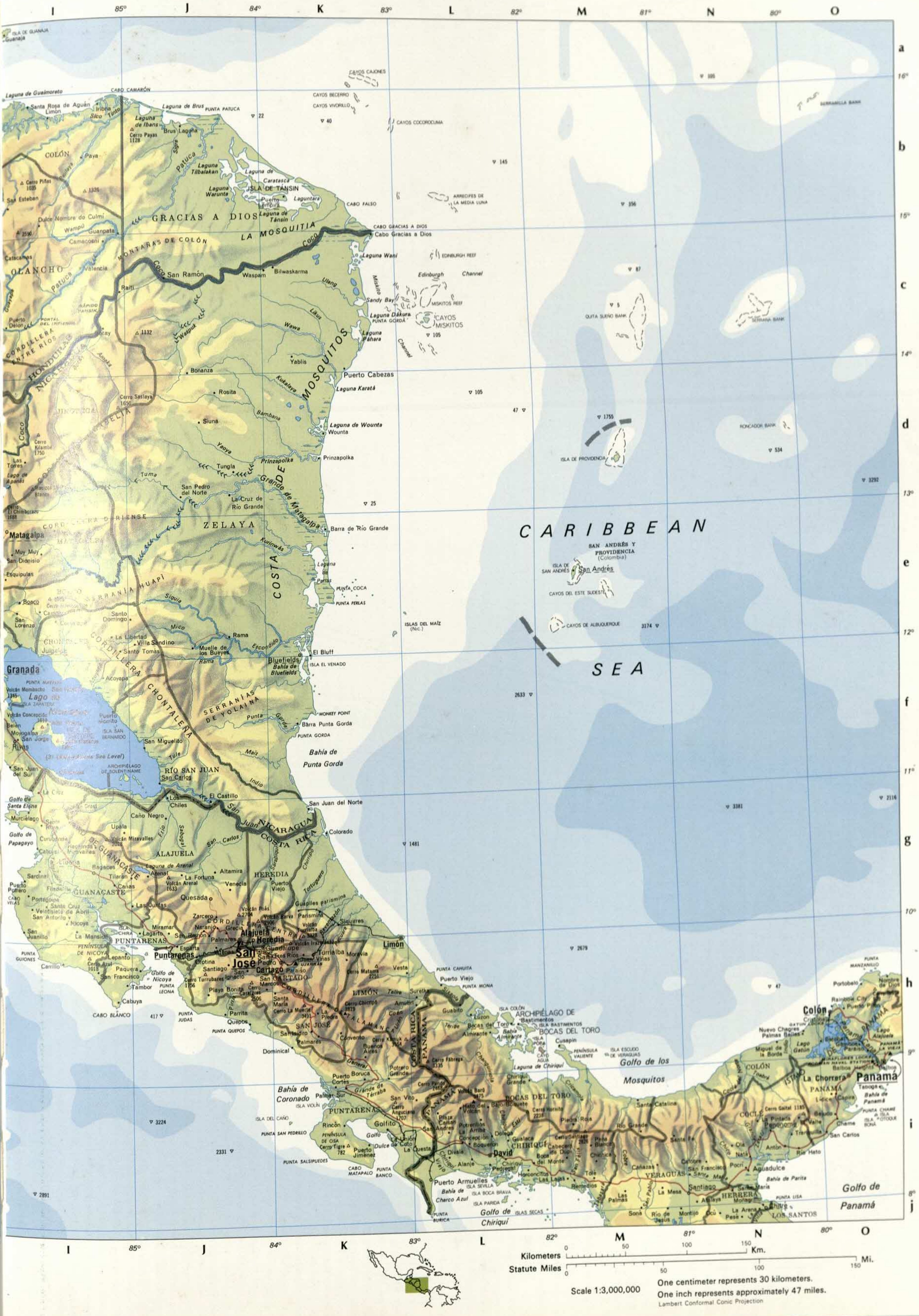
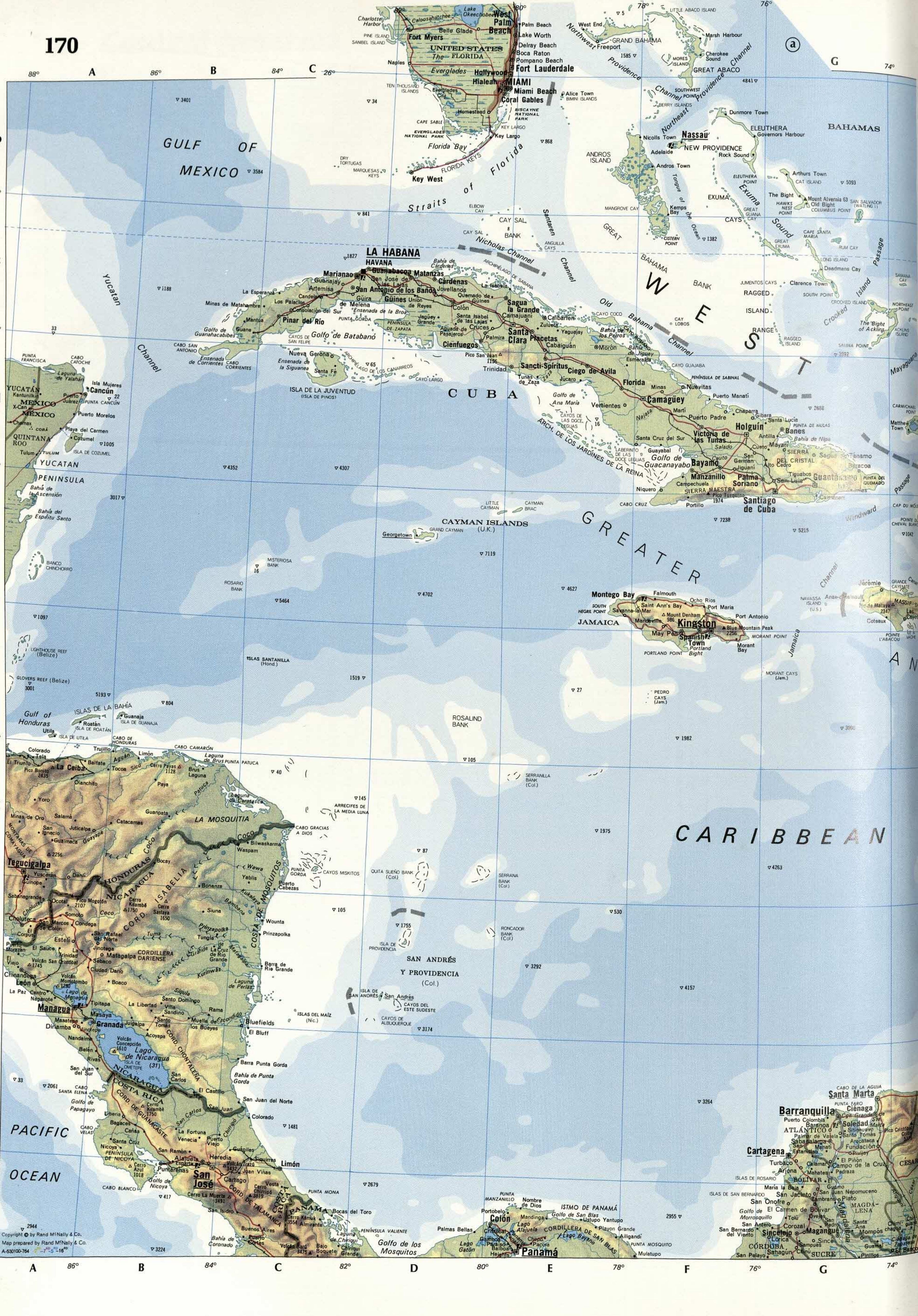


Kilometers 0 50 100 150 Km.

Statute Miles 0 50 100 150 Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.
Lambert Conformal Conic Projection



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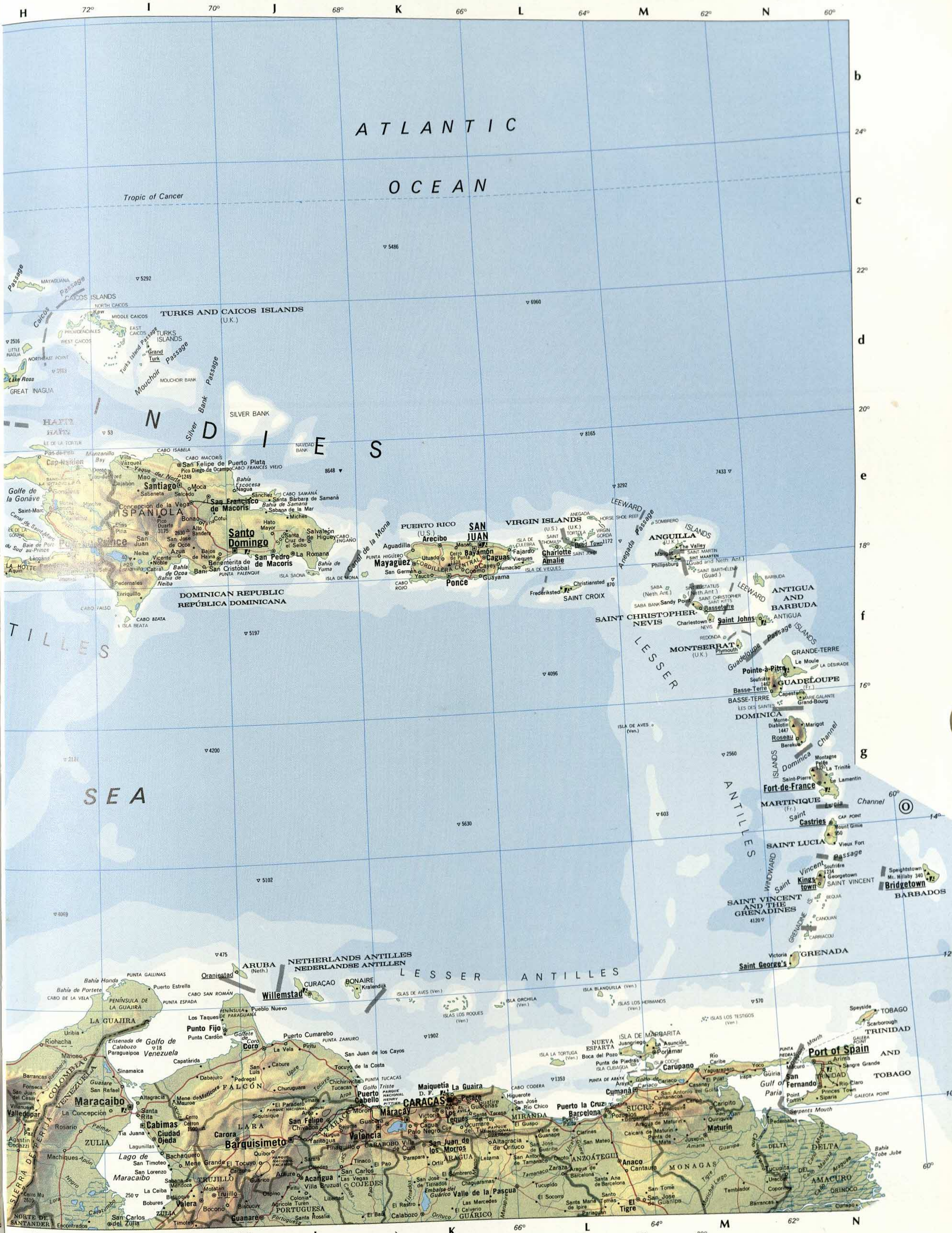


Kilometers 0 100 200 300 Km.

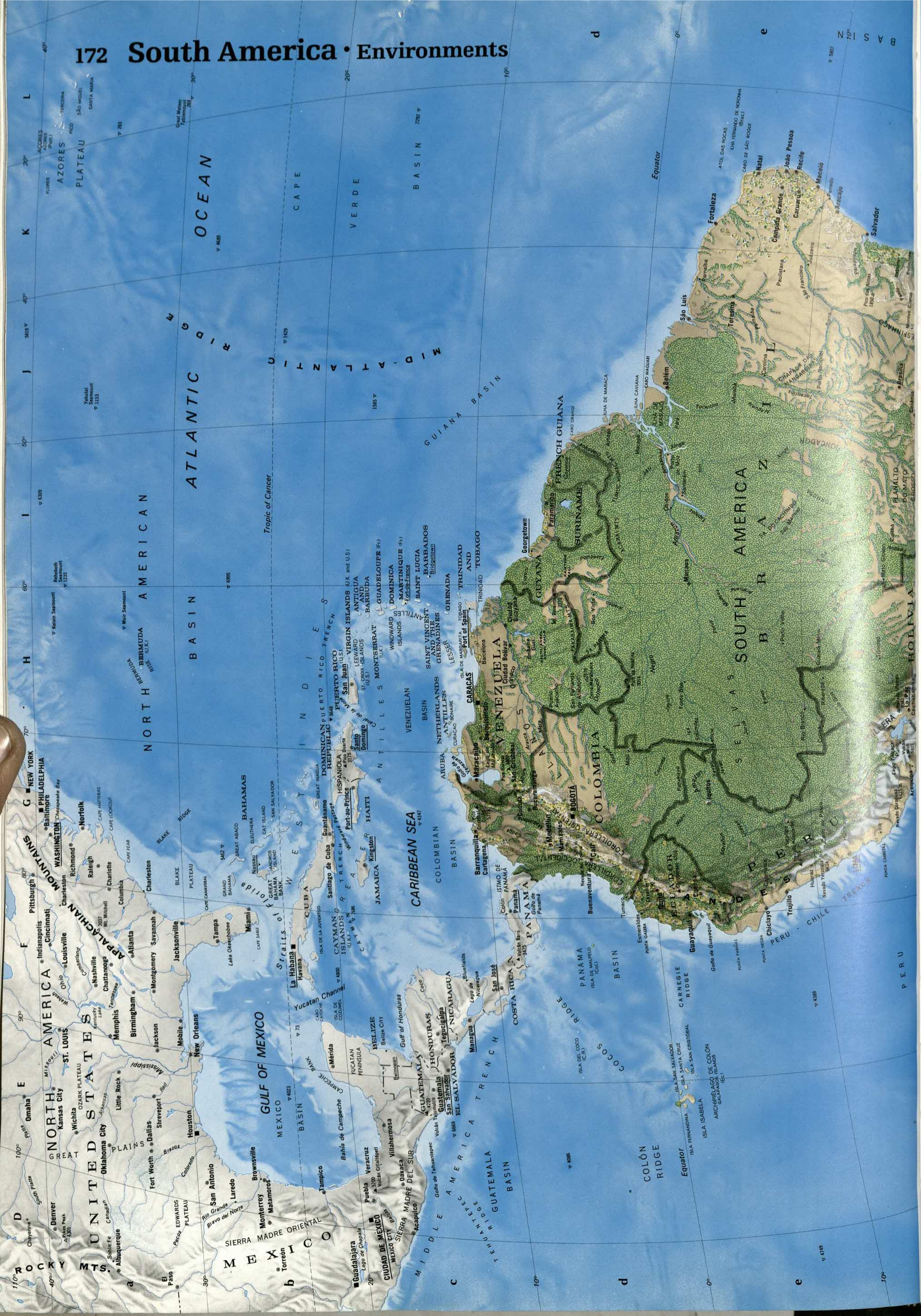
Statute Miles 0 100 200 300 Mi.

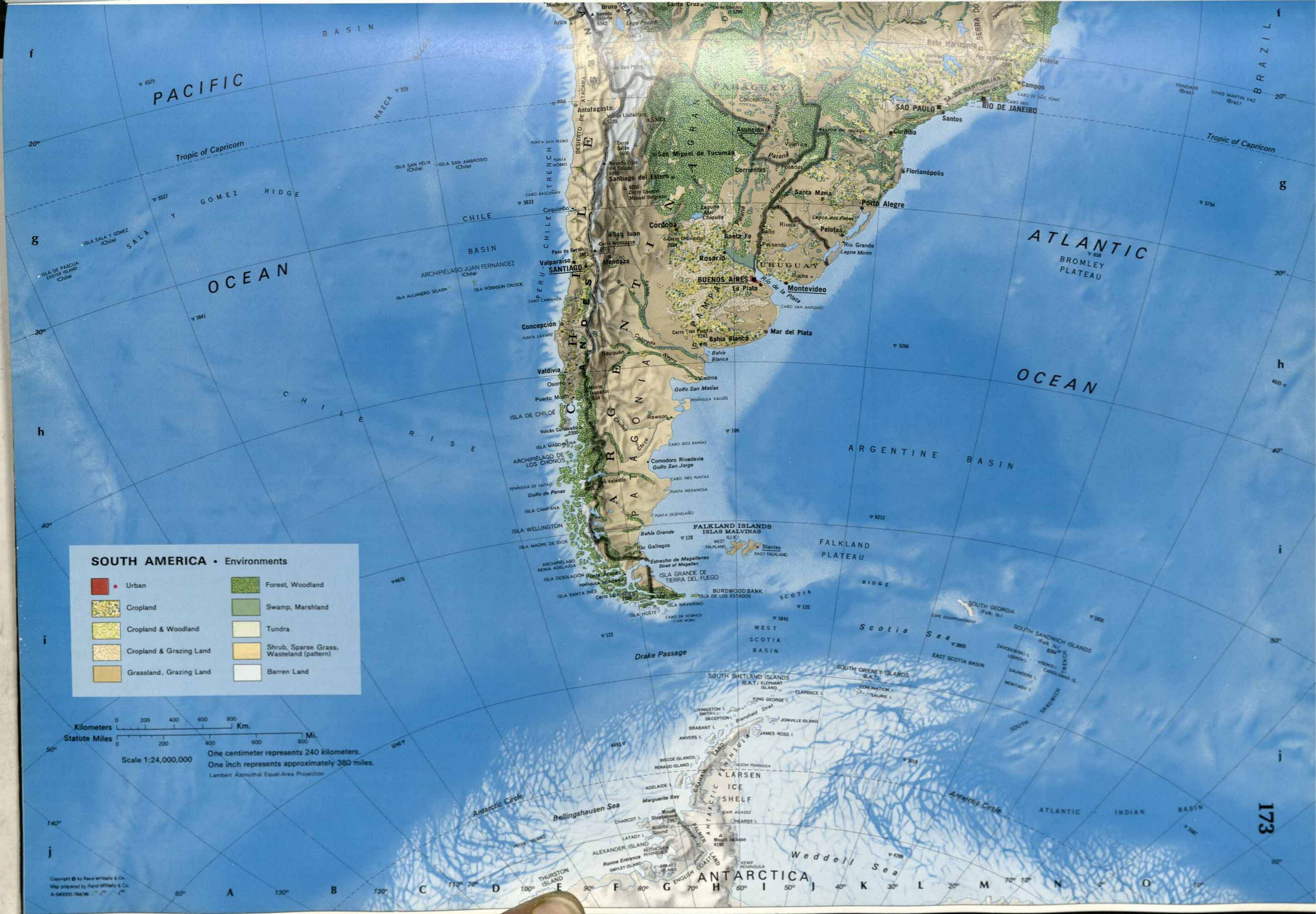
Scale 1:6,000,000

One centimeter represents 60 kilometers.

One inch represents approximately 95 miles.

Lambert Conformal Conic Projection


ATLANTIC OCEAN
NORTH AMERICAN BASIN
MID-ATLANTIC RIDGE
CAPE VERDE BASIN
GUIANA BASIN
AZORES PLATEAU
Tropic of Cancer
Equator
NORTH AMERICA
UNITED STATES
APPALACHIAN MOUNTAINS
ROCKY MTS.
GREAT PLAINS
NEW YORK
PHILADELPHIA
WASHINGTON
Baltimore
Pittsburgh
Norfolk
Richmond
Raleigh
Charlotte
Charleston
Columbia
Atlanta
Savannah
Jacksonville
Tampa
Miami
Montgomery
Birmingham
Chattanooga
Nashville
Louisville
Cincinnati
Indianapolis
ST. LOUIS
Kansas City
Omaha
Wichita
Denver
Albuquerque
Oklahoma City
Little Rock
Memphis
Jackson
Mobile
New Orleans
Shreveport
Dallas
Fort Worth
Houston
San Antonio
Laredo
Brownsville
El Paso
GULF OF MEXICO
MEXICO
SIERRA MADRE ORIENTAL
SIERRA MADRE DEL SUR
Monterrey
Matamoros
Torreón
Tampico
Guadalajara
CIUDAD DE MÉXICO
Puebla
Veracruz
Oaxaca
Acapulco
Villahermosa
Mérida
YUCATAN PENINSULA
Bahía de Campeche
BELIZE
GUATEMALA
HONDURAS
EL SALVADOR
NICARAGUA
COSTA RICA
PANAMA
Tegucigalpa
San Salvador
Managua
San José
Panamá
Yucatan Channel
Gulf of Honduras
CUBA
La Habana
Straits of Florida
BAHAMAS
Nassau
JAMAICA
Kingston
HAITI
Port-au-Prince
DOMINICAN REPUBLIC
Santo Domingo
PUERTO RICO
San Juan
VIRGIN ISLANDS
ANTIGUA AND BARBUDA
GUADELOUPE
DOMINICA
MARTINIQUE
SAINT LUCIA
BARBADOS
SAINT VINCENT AND THE GRENADINES
GRENADA
TRINIDAD AND TOBAGO
Port of Spain
BERMUDA
WEST INDIES
GREATER ANTILLES
LESSER ANTILLES
CARIBBEAN SEA
COLOMBIAN BASIN
VENEZUELAN BASIN
NETHERLANDS ANTILLES
ARUBA
MIDDLE AMERICA TRENCH
GUATEMALA BASIN
COCOS RIDGE
PANAMA BASIN
CARNEGIE RIDGE
COLÓN RIDGE
ARCHIPIÉLAGO DE COLÓN GALAPAGOS ISLANDS
PERU-CHILE TRENCH
PERU BASIN
SOUTH AMERICA
VENEZUELA
CARACAS
Maracaibo
Barcelona
Ciudad Bolívar
Ciudad Guayana
COLOMBIA
BOGOTÁ
Medellín
Cali
Barranquilla
Cartagena
Bucaramanga
ECUADOR
Quito
Guayaquil
PERU
Iquitos
Chiclayo
Trujillo
BOLIVIA
La Paz
GUYANA
Georgetown
SURINAME
Paramaribo
FRENCH GUIANA
BRAZIL
Manaus
Belém
São Luís
Teresina
Fortaleza
Natal
João Pessoa
Recife
Maceió
Aracaju
Salvador
Campina Grande
Caruaru
Brasília
Goiânia
Cuiabá
Porto Velho
Rio Branco
SELVAS
LLANOS
Amazon
Negro
Orinoco
São Francisco
Tocantins
Xingu
Madeira
CORDILLERA OCCIDENTAL
CORDILLERA ORIENTAL
PLANALTO DO MATO GROSSO
CHAPADA DAS MANGABEIRAS
ILHA DE MARAJÓ
ATOL DAS ROCAS
ILHA FERNANDO DE NORONHA
CABO DE SÃO ROQUE
10°
20°
30°
40°
50°
60°
70°
80°
90°
100°
110°
0°



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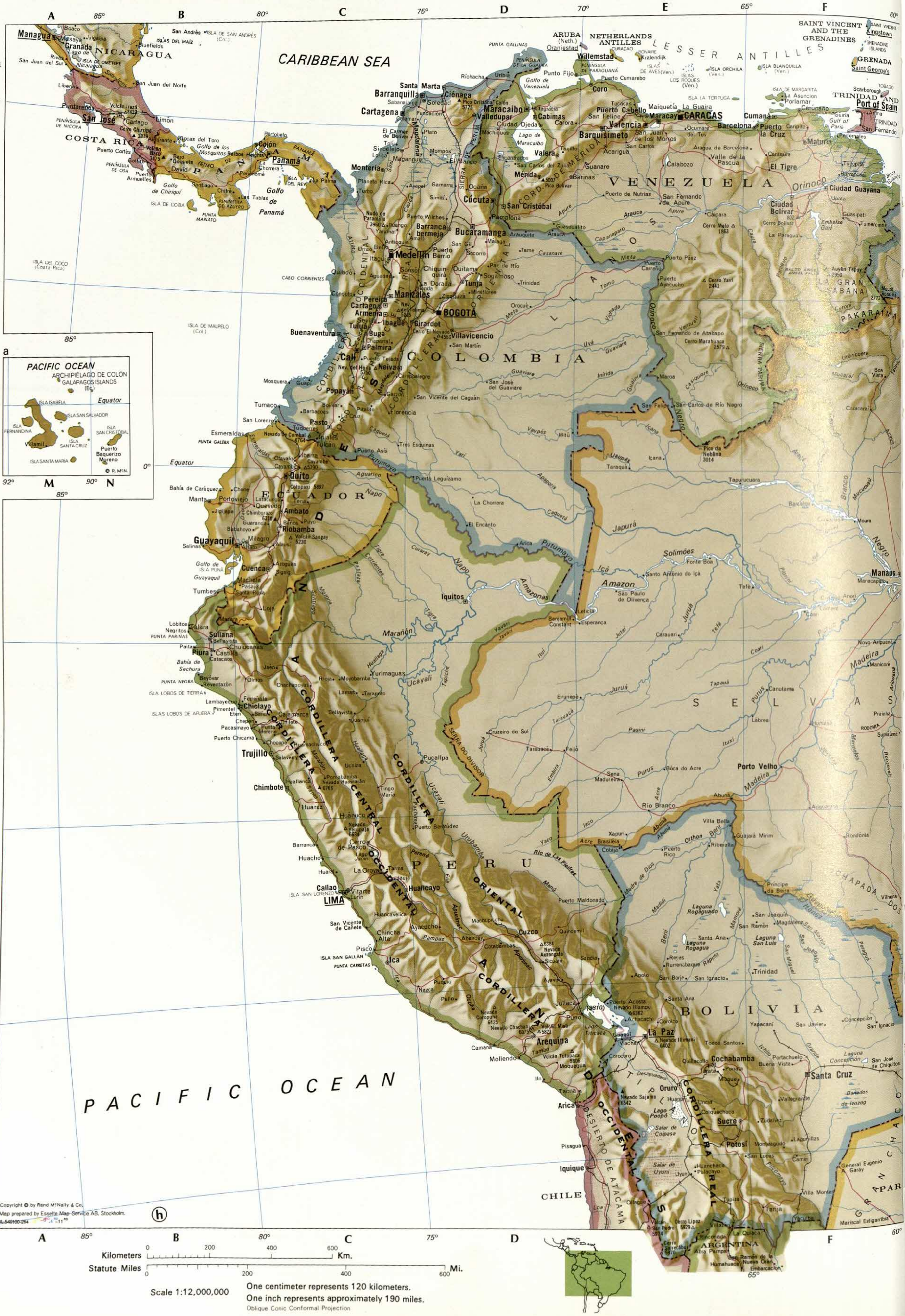
A-540000-784/96

Northern South America



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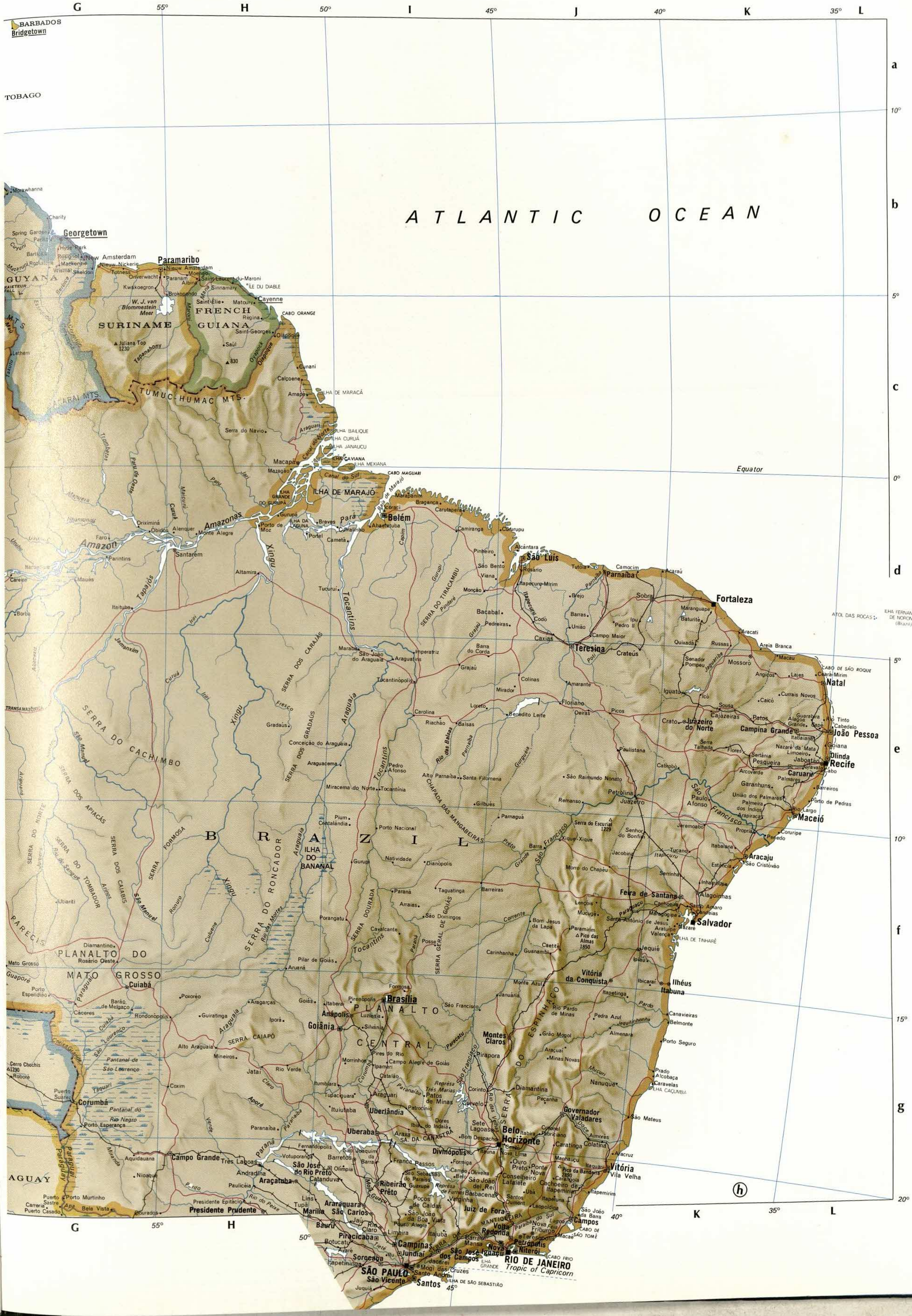
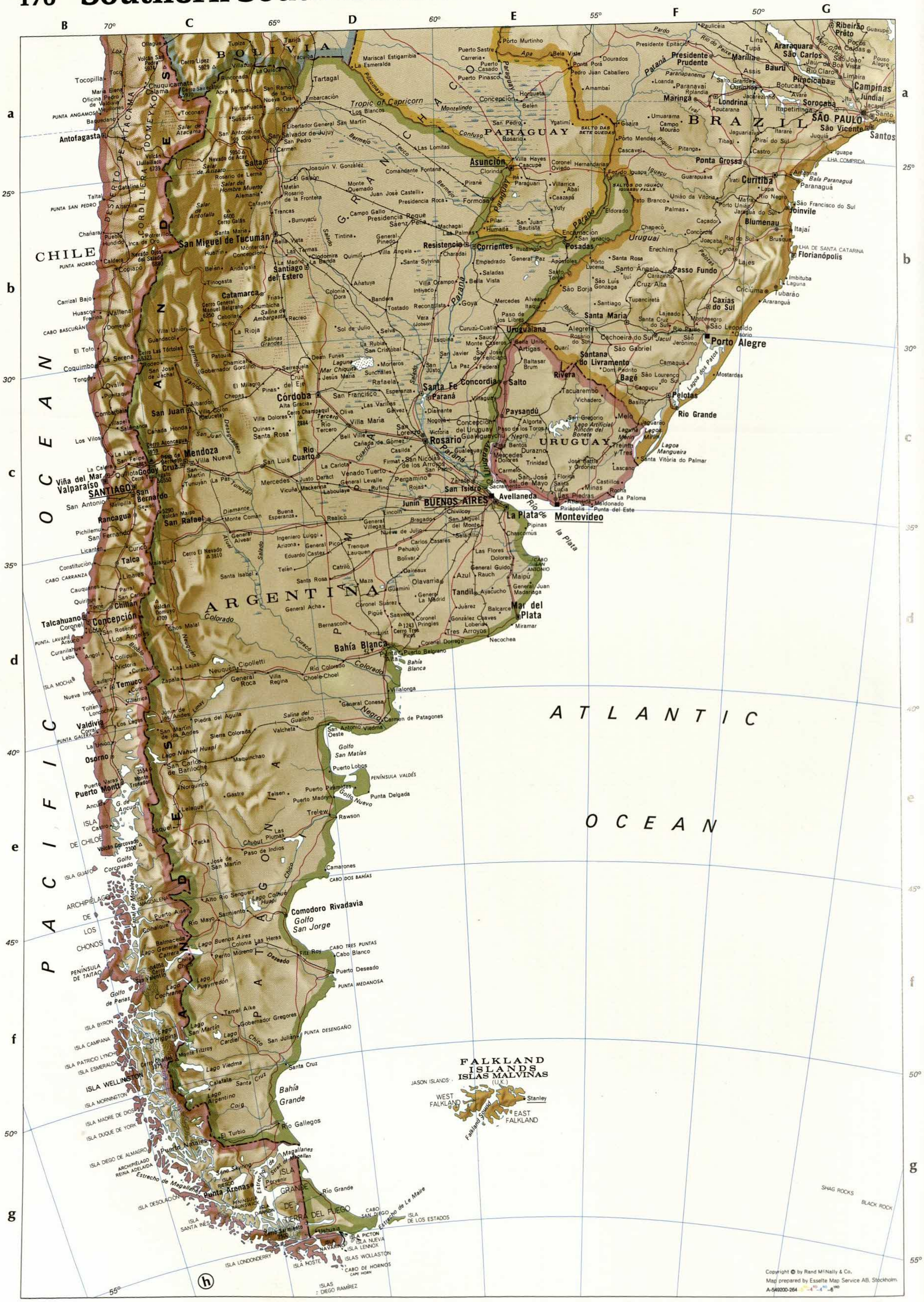
Map prepared by Esselte Map Service AB, Stockholm.
A-549100-254

Kilometers 0 200 400 600 Km.
Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000
One centimeter represents 120 kilometers.
One inch represents approximately 190 miles.
Oblique Conic Conformal Projection


G
55°
H
50°
I
45°
J
40°
K
35°
L
a
b
c
d
e
f
g
h
10°
5°
0°
15°
20°
BARBADOS
Bridgetown
TOBAGO
ATLANTIC OCEAN
Equator
Tropic of Capricorn
GUYANA
Georgetown
New Amsterdam
SURINAME
Paramaribo
FRENCH GUIANA
Cayenne
ÎLE DU DIABLE
CABO ORANGE
TUMUC-HUMAC MTS.
ACARAI MTS.
W. J. van Blommestein Meer
Juliana Top 1230
ILHA DE MARACÁ
Macapá
ILHA DE MARAJÓ
Belém
Amazonas
Amazon
Santarém
Tapajós
Xingu
Tocantins
Araguaia
São Luís
Teresina
Parnaíba
Fortaleza
ATOL DAS ROCAS
ILHA FERNANDO DE NORONHA (Brazil)
CABO DE SÃO ROQUE
Natal
João Pessoa
Campina Grande
Olinda
Recife
Maceió
Aracaju
São Francisco
Juazeiro
Feira de Santana
Salvador
Ilhéus
Vitória da Conquista
B R A Z I L
SERRA DO CACHIMBO
SERRA DOS CARAJÁS
SERRA DO RONCADOR
ILHA DO BANANAL
CHAPADA DAS MANGABEIRAS
SERRA GERAL DE GOIÁS
PLANALTO DO MATO GROSSO
PLANALTO CENTRAL
SERRA DO ESPINHAÇO
Cuiabá
Brasília
Anápolis
Goiânia
Uberlândia
Montes Claros
Belo Horizonte
Vitória
Vila Velha
Campo Grande
Corumbá
Pantanal de São Lourenço
Campos
Juiz de Fora
Volta Redonda
Petrópolis
Niterói
RIO DE JANEIRO
CABO FRIO
Campinas
Jundiaí
São José dos Campos
SÃO PAULO
Santos
São Vicente
Ribeirão Prêto
Presidente Prudente
Araçatuba
Bauru
Paraná
Paraguay
AGUAY

Southern South America



Kilometers 0 200 400 600 Km.

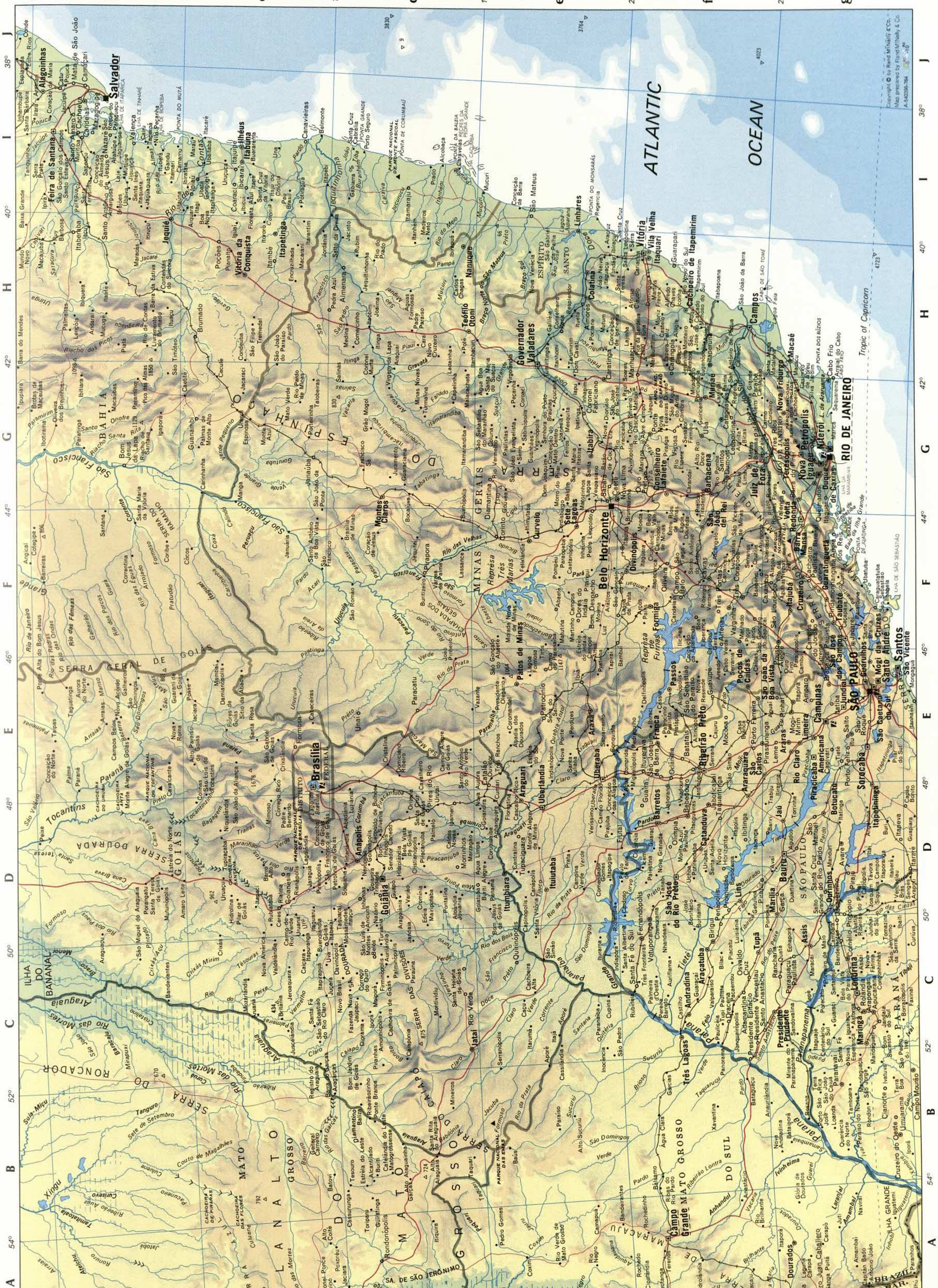
Statute Miles 0 200 400 600 Mi.

Scale 1:12,000,000

One centimeter represents 120 kilometers.

One inch represents approximately 190 miles.

Oblique Conic Conformal Projection



Kilometers 0 100 200 300 Km.

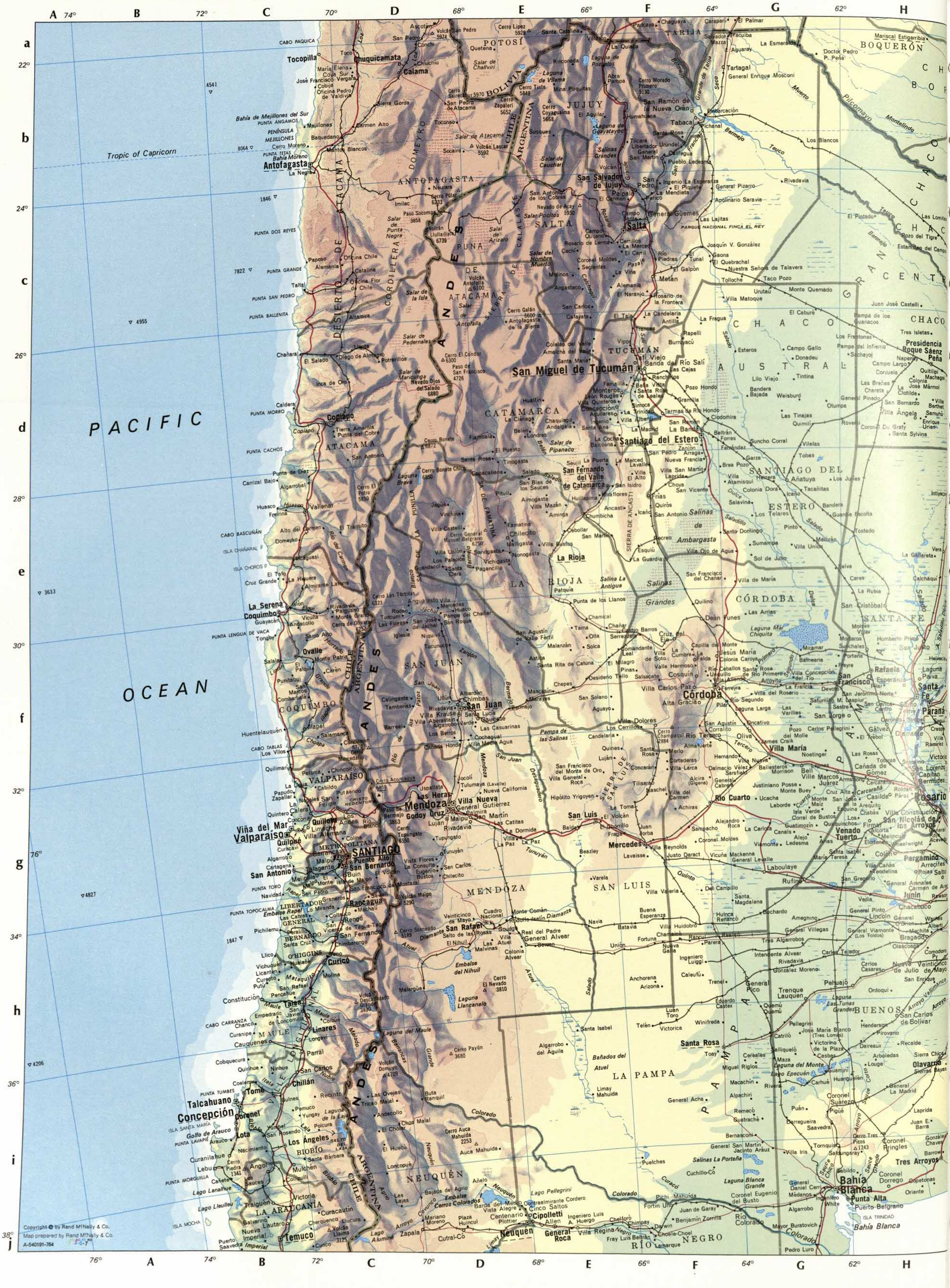
Statute Miles 0 100 200 300 Mi.

Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.

Oblique Conic Conformal Projection

Central Argentina and Chile



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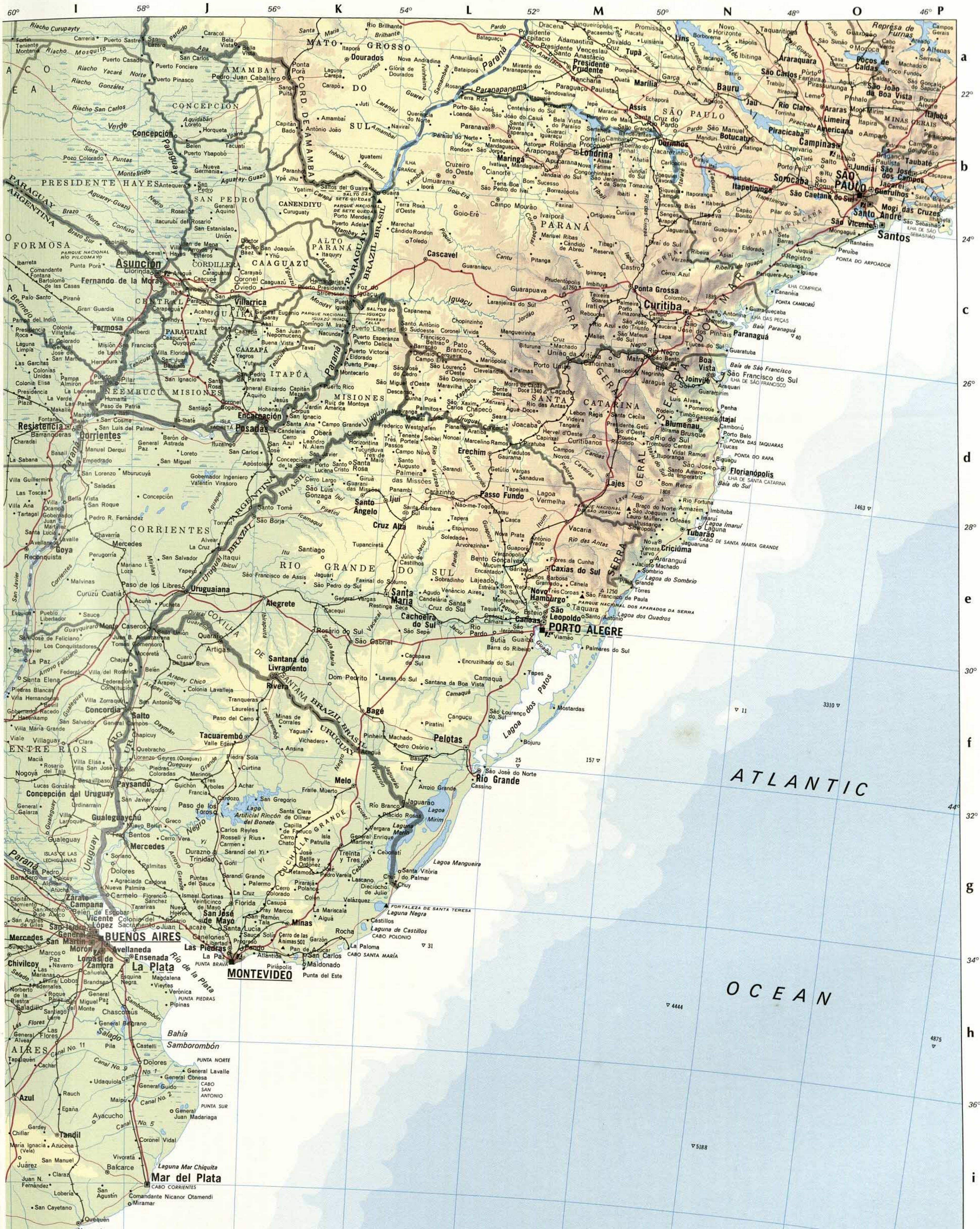
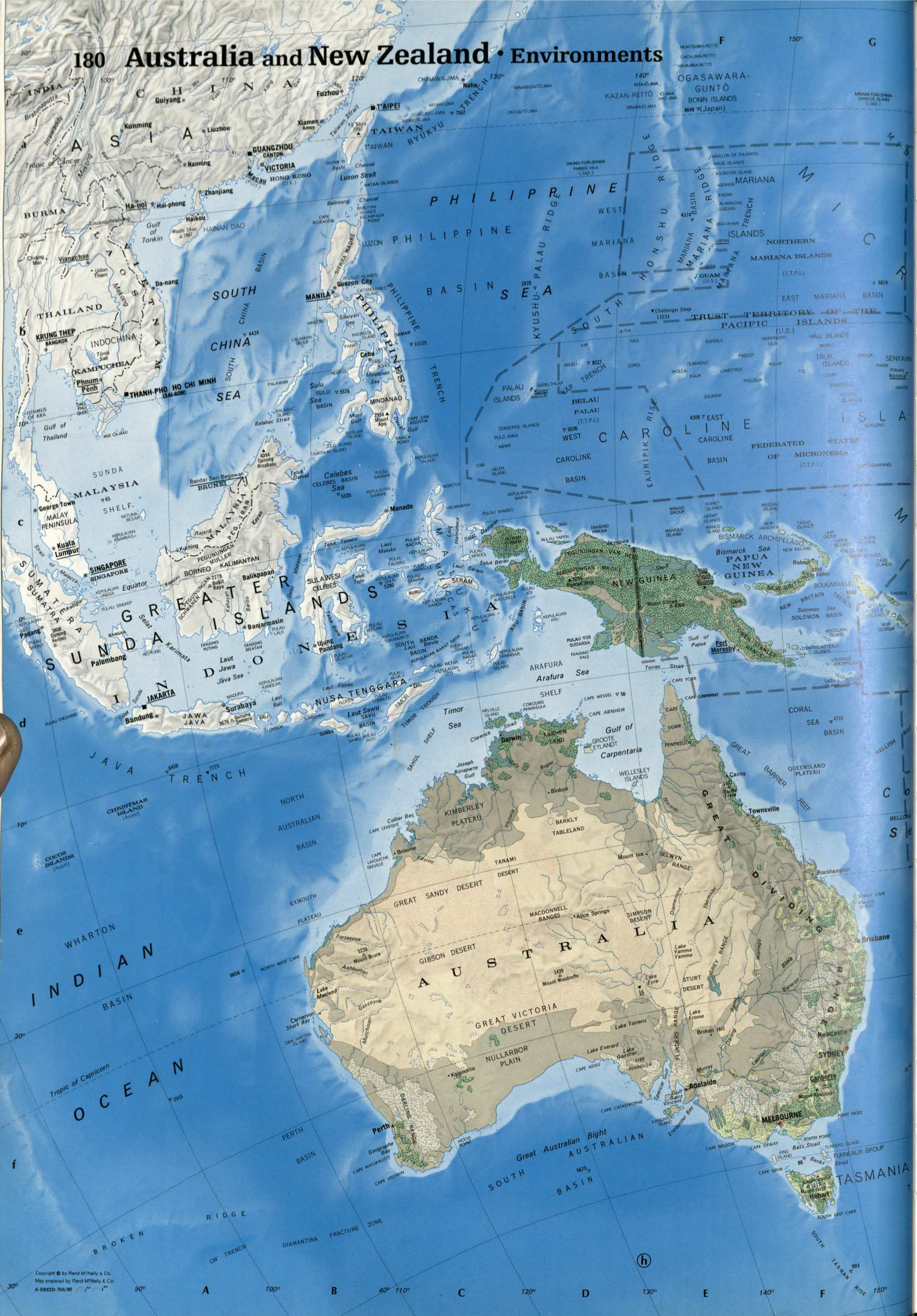
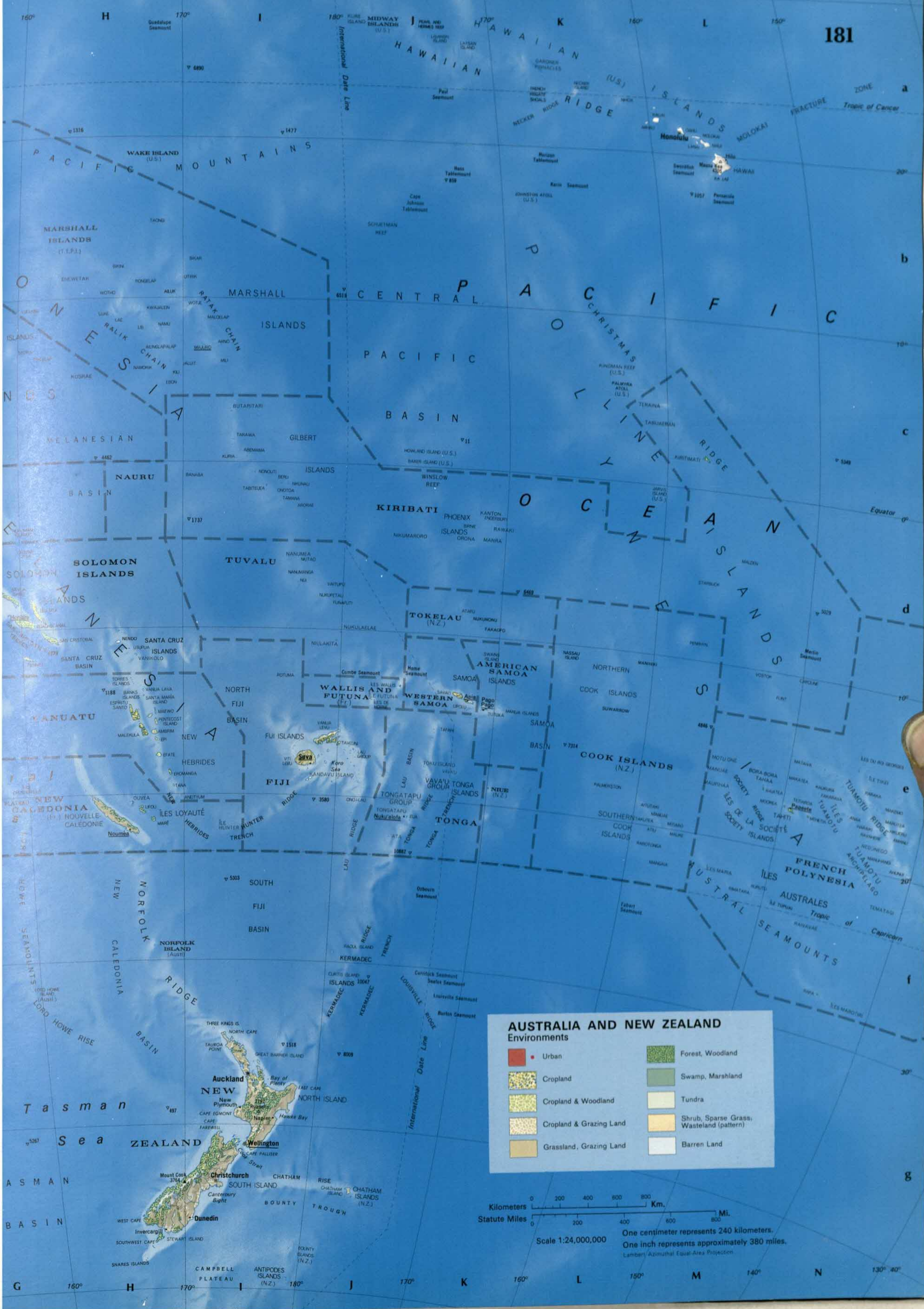


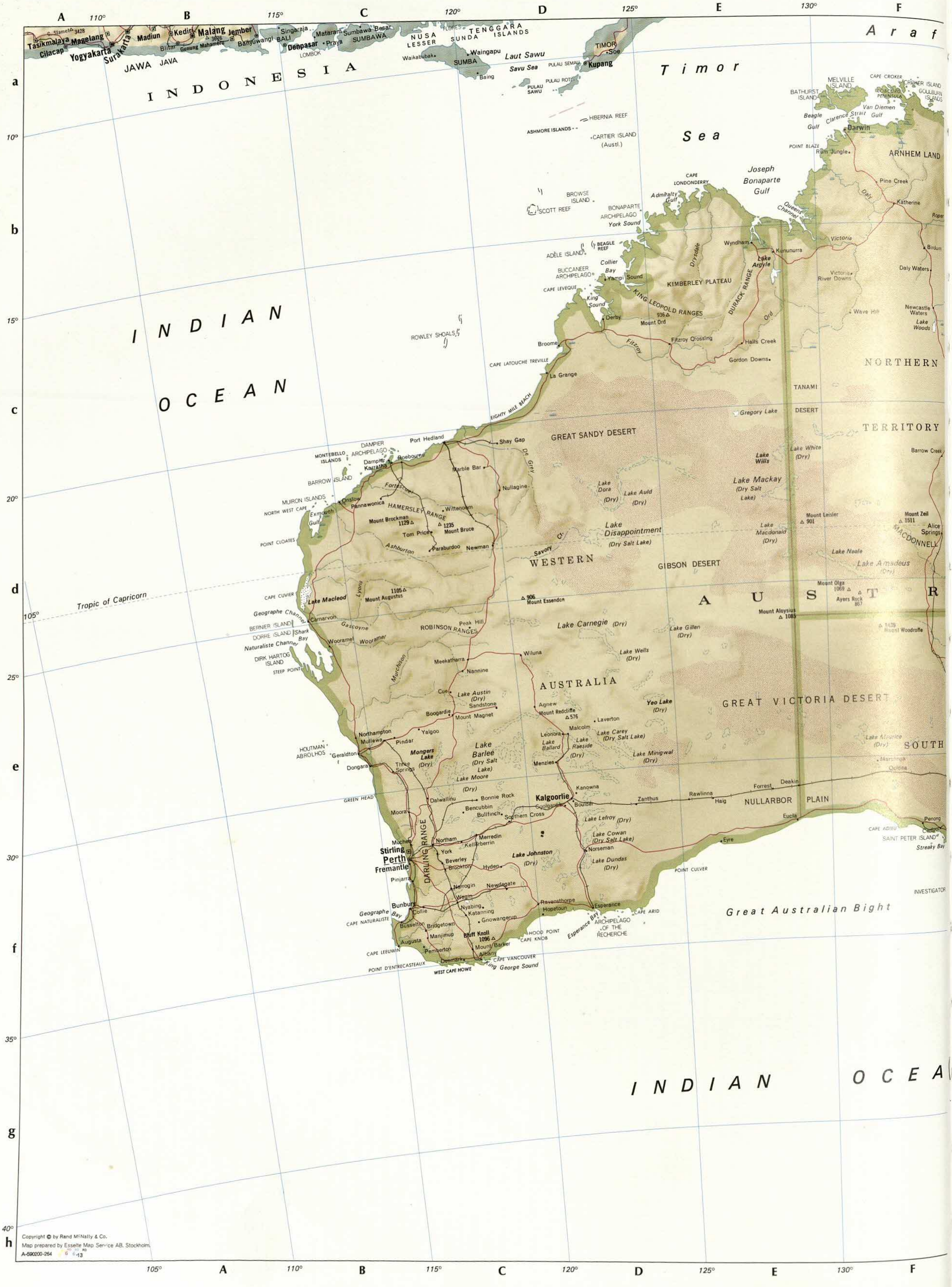
Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Oblique Conic Conformal Projection

Australia and New Zealand · Environments




AUSTRALIA AND NEW ZEALAND
Environments
🟥 Urban
Cropland
Cropland & Woodland
Cropland & Grazing Land
Grassland, Grazing Land
Forest, Woodland
Swamp, Marshland
Tundra
Shrub, Sparse Grass; Wasteland (pattern)
Barren Land
Kilometers 0 200 400 600 800 Km.
Statute Miles 0 200 400 600 800 Mi.
Scale 1:24,000,000
One centimeter represents 240 kilometers.
One inch represents approximately 380 miles.
Lambert Azimuthal Equal-Area Projection
PACIFIC OCEAN
HAWAIIAN ISLANDS (U.S.)
HAWAIIAN RIDGE
Honolulu
HAWAII
MIDWAY ISLANDS (U.S.)
WAKE ISLAND (U.S.)
PACIFIC MOUNTAINS
MARSHALL ISLANDS (T.T.P.I.)
RATAK CHAIN
RALIK CHAIN
CENTRAL PACIFIC BASIN
MELANESIAN BASIN
NAURU
GILBERT ISLANDS
KIRIBATI
PHOENIX ISLANDS
CHRISTMAS RIDGE
LINE ISLANDS
POLYNESIA
MICRONESIA
MELANESIA
SOLOMON ISLANDS
TUVALU
TOKELAU (N.Z.)
AMERICAN SAMOA
WESTERN SAMOA
WALLIS AND FUTUNA (Fr.)
SANTA CRUZ ISLANDS
VANUATU
NEW HEBRIDES
NORTH FIJI BASIN
FIJI ISLANDS
FIJI
Suva
NEW CALEDONIA (Fr.) NOUVELLE-CALÉDONIE
Nouméa
ÎLES LOYAUTÉ
TONGA
Nuku'alofa
NIUE (N.Z.)
SAMOA BASIN
NORTHERN COOK ISLANDS
COOK ISLANDS (N.Z.)
SOUTHERN COOK ISLANDS
FRENCH POLYNESIA
SOCIETY ISLANDS
ÎLES DE LA SOCIÉTÉ
Papeete
TUAMOTU ARCHIPELAGO
ÎLES AUSTRALES
AUSTRAL SEAMOUNTS
Tropic of Capricorn
Tropic of Cancer
Equator
International Date Line
SOUTH FIJI BASIN
NORFOLK ISLAND (Austl.)
NORFOLK RIDGE
NEW CALEDONIA BASIN
LORD HOWE RISE
KERMADEC ISLANDS
KERMADEC TRENCH
TONGA TRENCH
LOUISVILLE RIDGE
Tasman Sea
TASMAN BASIN
NEW ZEALAND
NORTH ISLAND
SOUTH ISLAND
Auckland
Wellington
Christchurch
Dunedin
Invercargill
Napier
New Plymouth
Mount Cook 3764
Cook Strait
CHATHAM RISE
CHATHAM ISLANDS (N.Z.)
BOUNTY TROUGH
CAMPBELL PLATEAU
ANTIPODES ISLANDS (N.Z.)
G H I J K L M N
a b c d e f g
160° 170° 180° 170° 160° 150° 140° 130°



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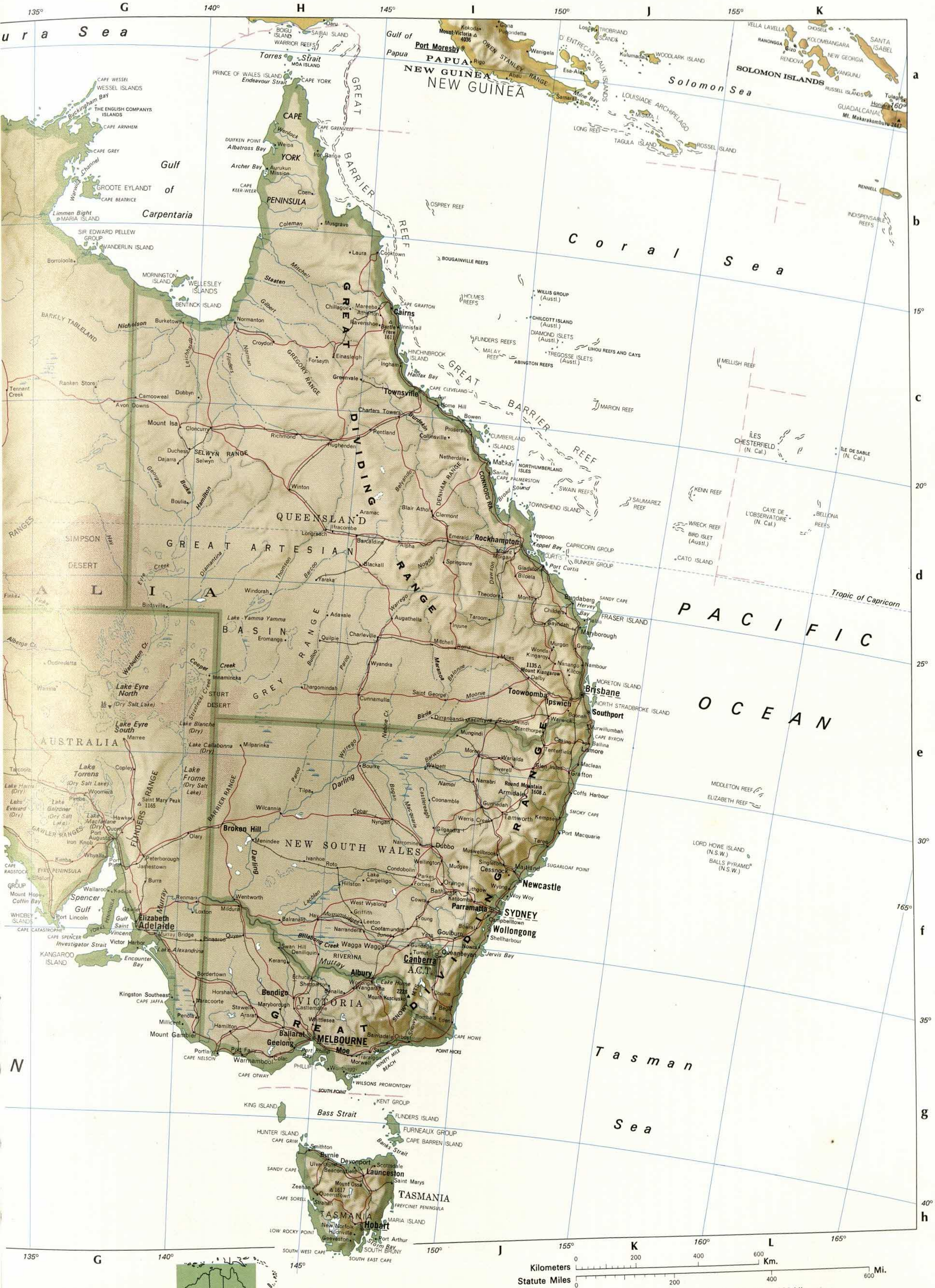
Map prepared by Esselte Map Service AB, Stockholm.

A-590200-264



Kilometers 0 200 400 600 Km.

Statute Miles 0 200 400 600 Mi.

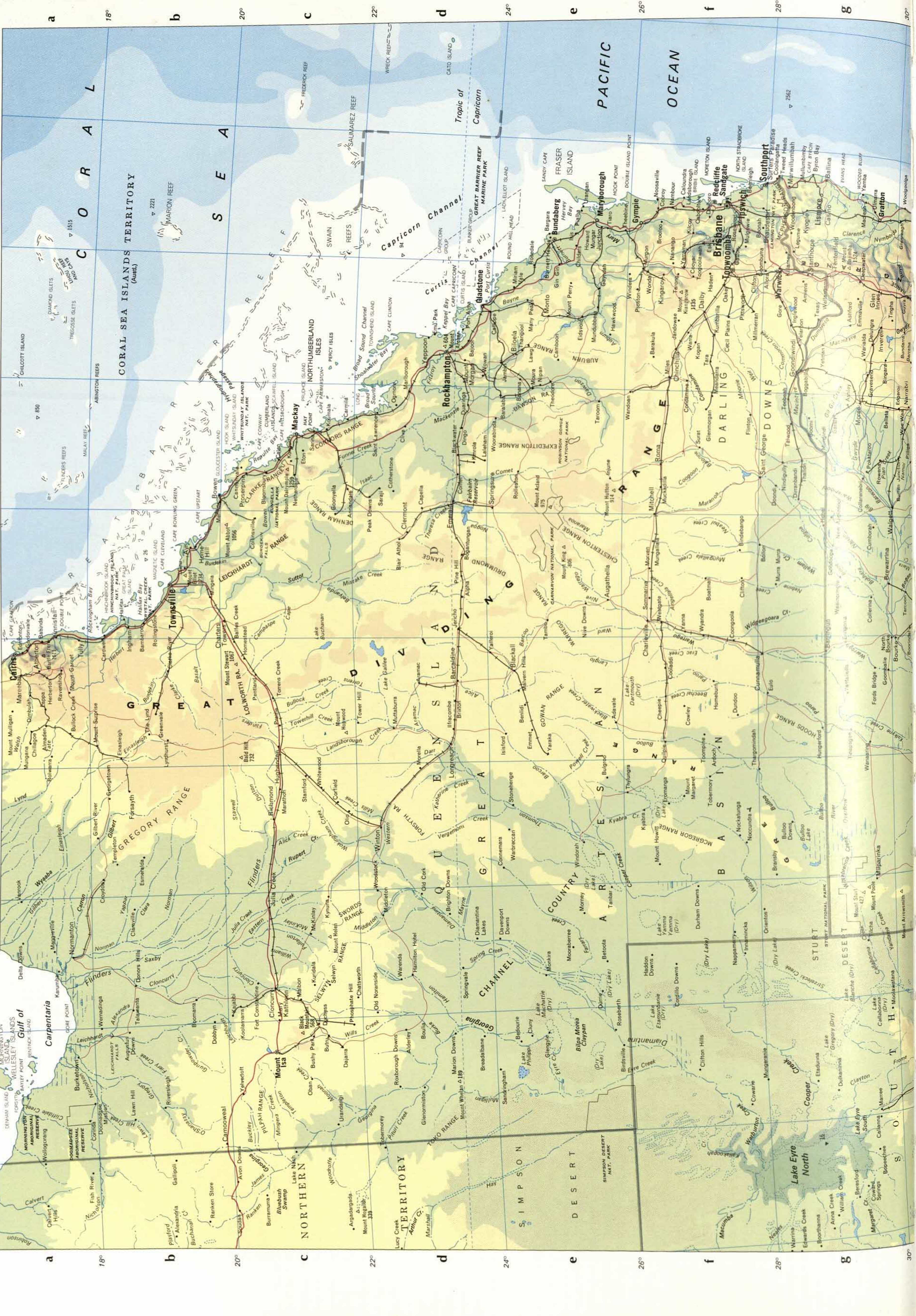
Scale 1:12,000,000

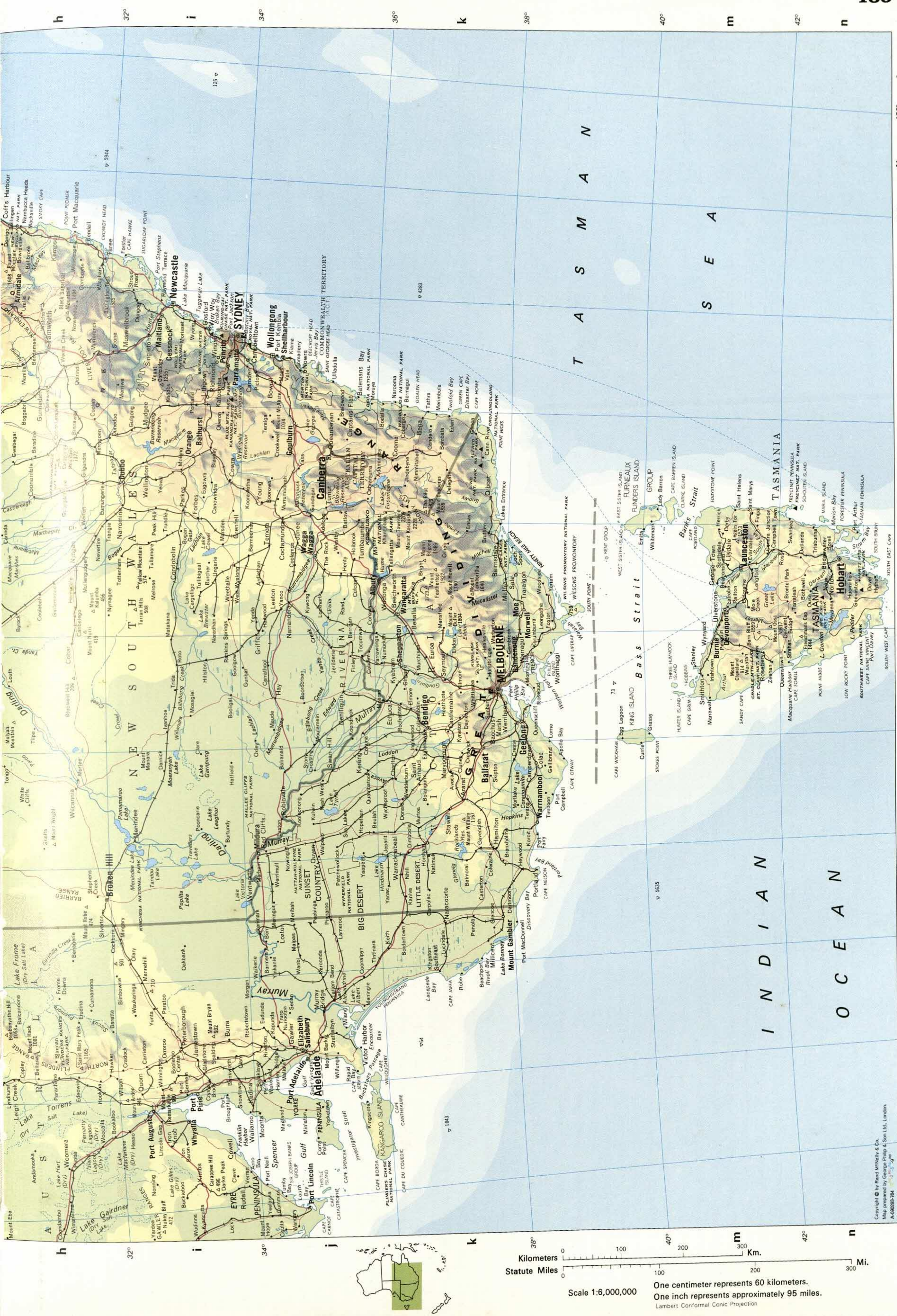
One centimeter represents 120 kilometers.

One inch represents approximately 190 miles.

Lambert Conformal Conic Projection

Eastern Australia





Scale 1:6,000,000

One centimeter represents 60 kilometers.
One inch represents approximately 95 miles.
Lambert Conformal Conic Projection

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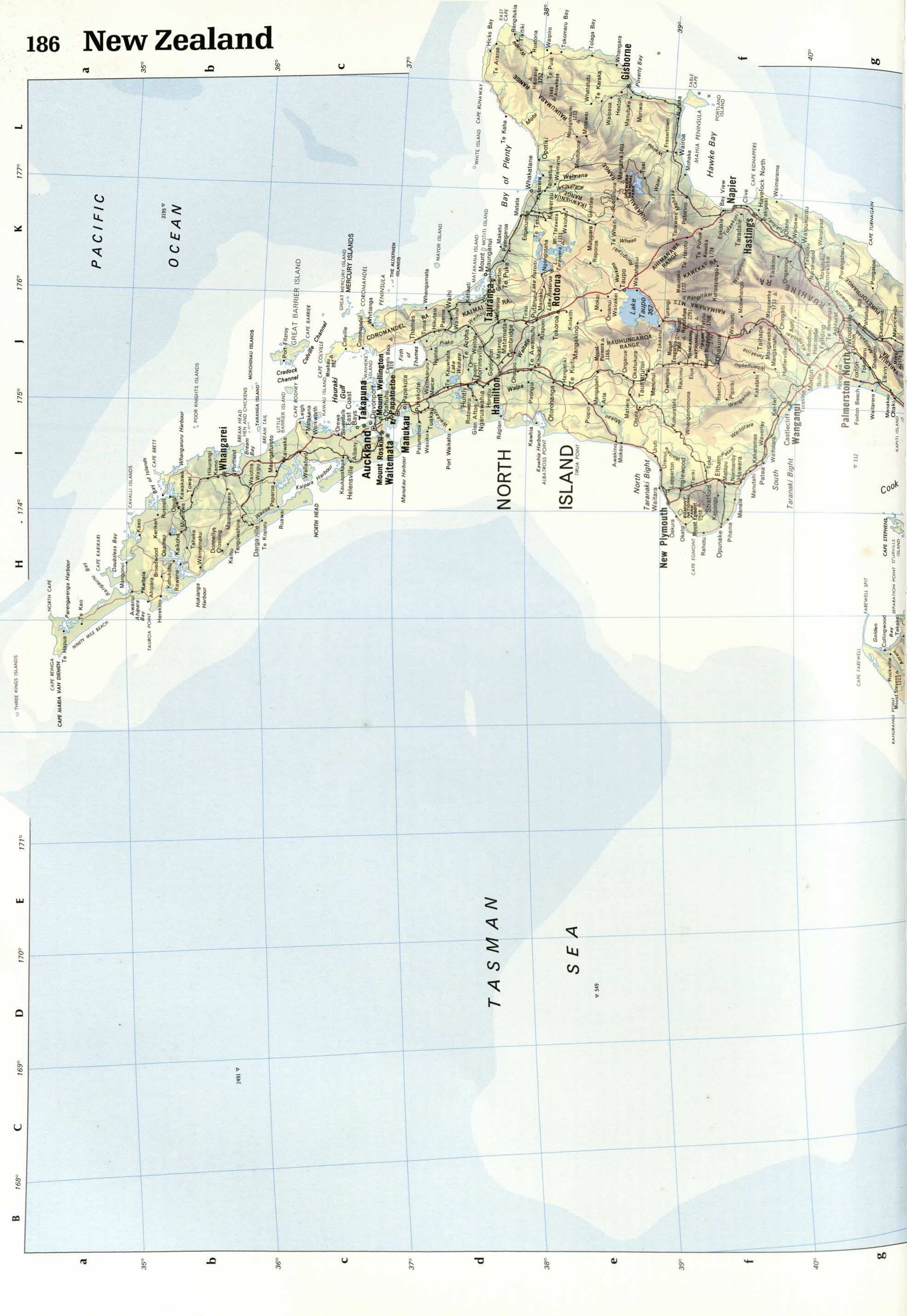
A-590293-764

New Zealand


PACIFIC
OCEAN
TASMAN
SEA
NORTH
ISLAND
Bay of Plenty
Hawke Bay
North Taranaki Bight
South Taranaki Bight
Hauraki Gulf
Firth of Thames
Colville Channel
Cradock Channel
Kaipara Harbour
Manukau Harbour
Hokianga Harbour
Bay of Islands
Poverty Bay
Cook
CAPE REINGA
CAPE MARIA VAN DIEMEN
NORTH CAPE
NINETY MILE BEACH
THREE KINGS ISLANDS
CAVALLI ISLANDS
POOR KNIGHTS ISLANDS
HEN AND CHICKENS
MOKOHINAU ISLANDS
GREAT BARRIER ISLAND
LITTLE BARRIER ISLAND
MERCURY ISLANDS
THE ALDERMEN ISLANDS
MAYOR ISLAND
WHITE ISLAND
CAPE RUNAWAY
EAST CAPE
TABLE CAPE
MAHIA PENINSULA
PORTLAND ISLAND
CAPE KIDNAPPERS
CAPE TURNAGAIN
CAPE EGMONT
CAPE FAREWELL
FAREWELL SPIT
COROMANDEL PENINSULA
Whangarei
Auckland
Takapuna
Mount Wellington
Mount Roskill
Waitemata
Papatoetoe
Manukau
Hamilton
Tauranga
Rotorua
Taupo
Lake Taupo
Gisborne
Napier
Hastings
New Plymouth
Wanganui
Palmerston North
Thames
Coromandel
Te Kuiti
Whakatane
Opotiki
Wairoa
Dargaville
Kaitaia
Russell
Helensville
Raglan
Hawera
Stratford
Masterton
Mount Egmont 2518
Mount Ruapehu 2797
TONGARIRO NATIONAL PARK
KAIMANAWA MTS
KAWEKA RA
RUAHINE RANGE
HAUHUNGAROA RANGE
RAUKUMARA RANGE
IKAWHENUA RANGE
KAIMAI RA
Golden Bay
Collingwood
Takaka
3195
2491
549
112
a
b
c
d
e
f
g
B
C
D
E
H
I
J
K
L
34°
35°
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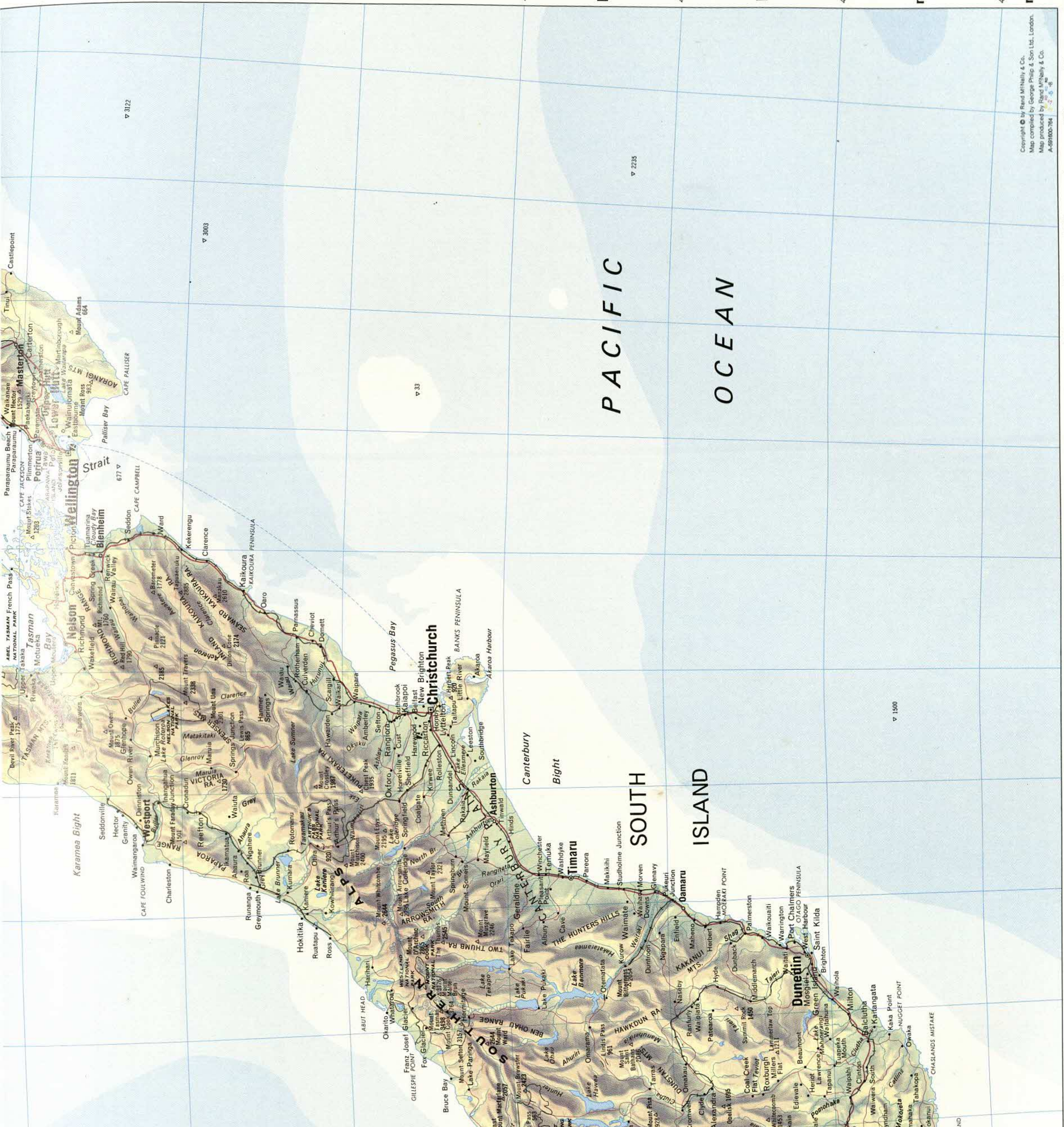
174°
175°
176°
177°



Kilometers 0 50 100 150 Km.

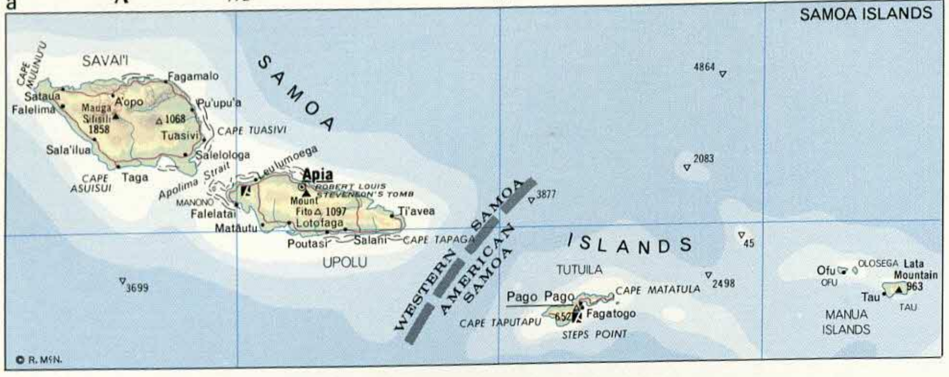
Statute Miles 0 50 100 150 Mi.

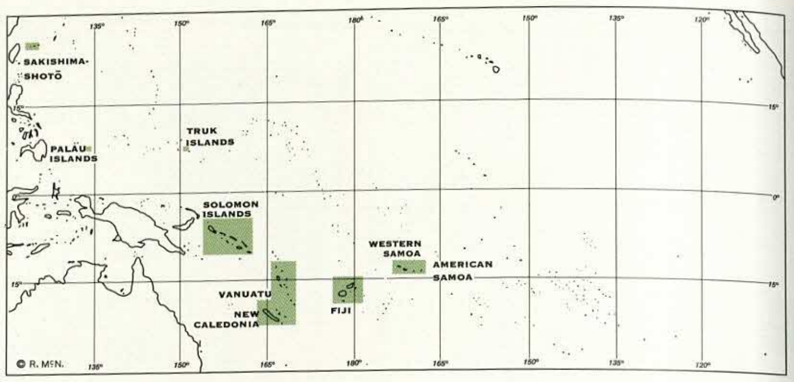
Scale 1:3,000,000

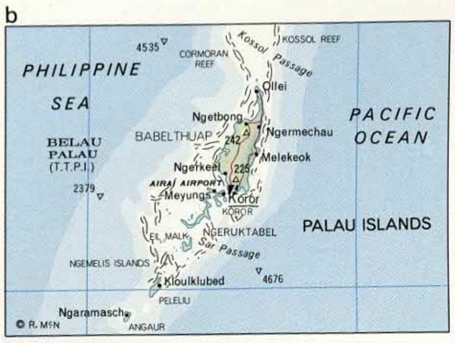
One centimeter represents 30 kilometers.
One inch represents approximately 47 miles.

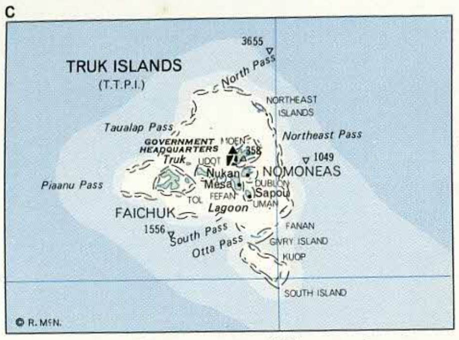
Lambert Conformal Conic Projection

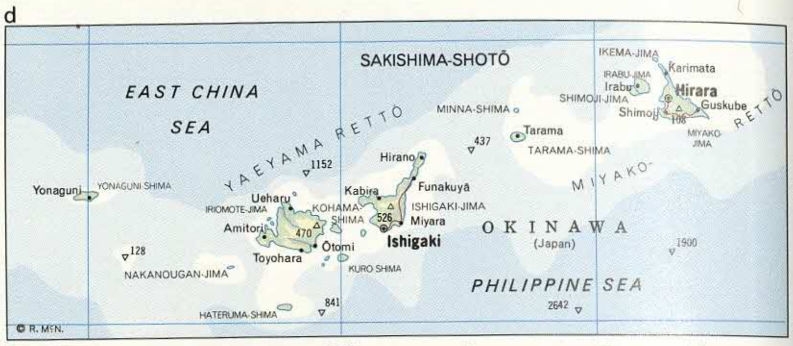
Islands of the Pacific











Kilometers 0 50 100 150 Km.

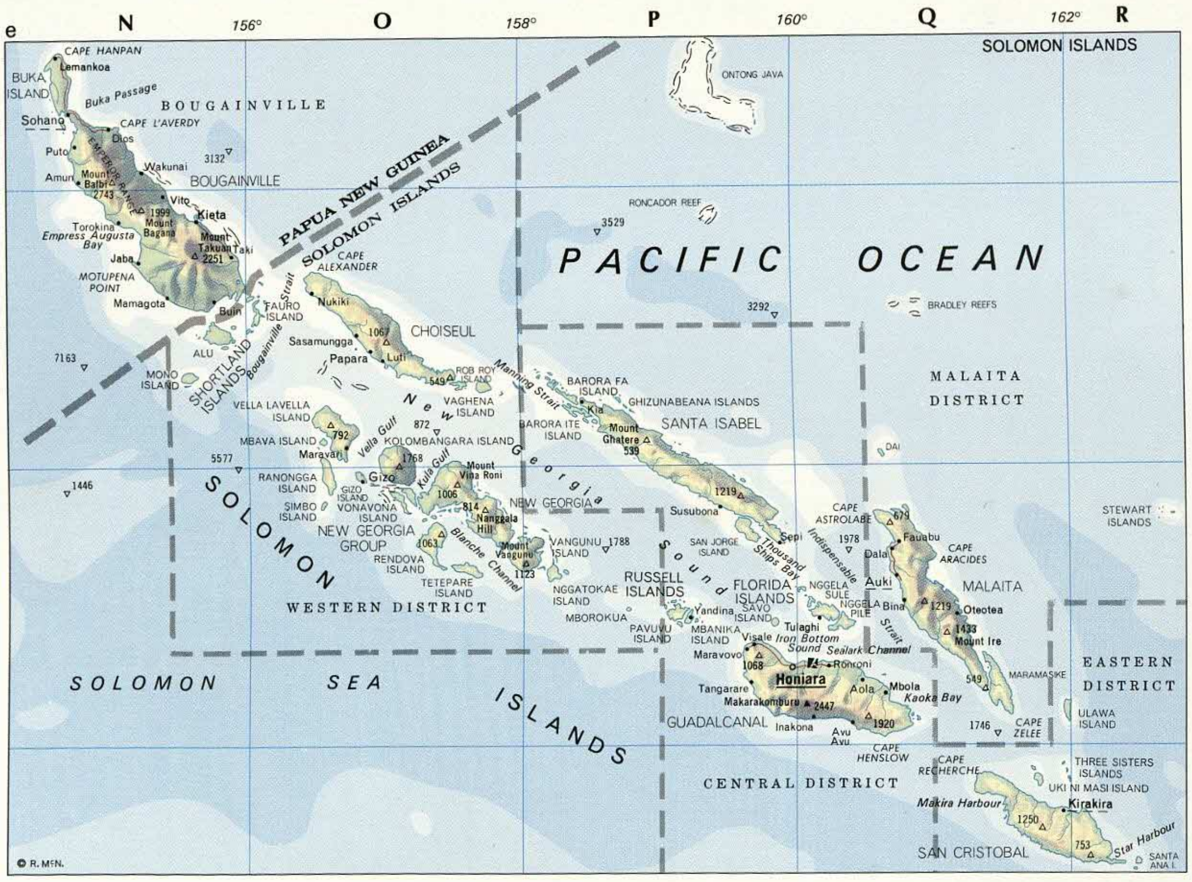
Statute Miles 0 50 100 150 Mi.

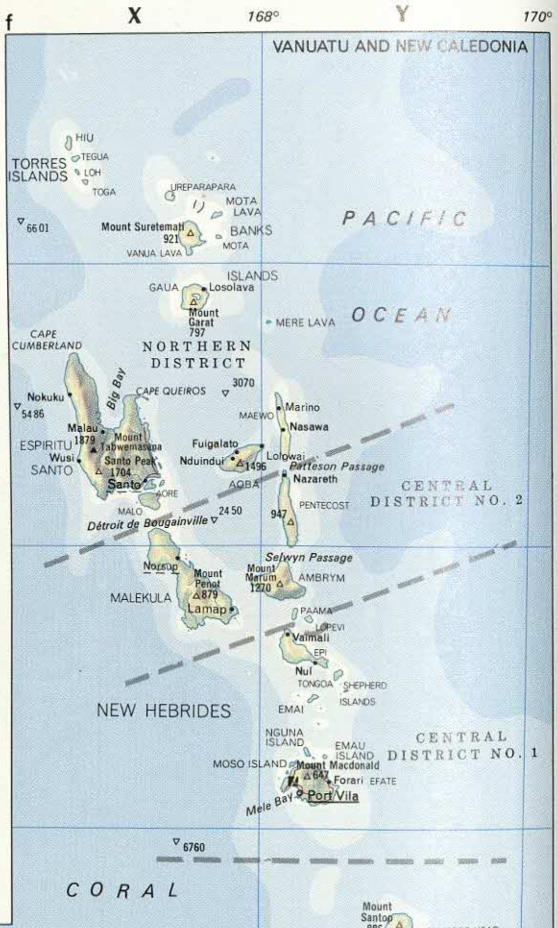
Scale 1:3,000,000

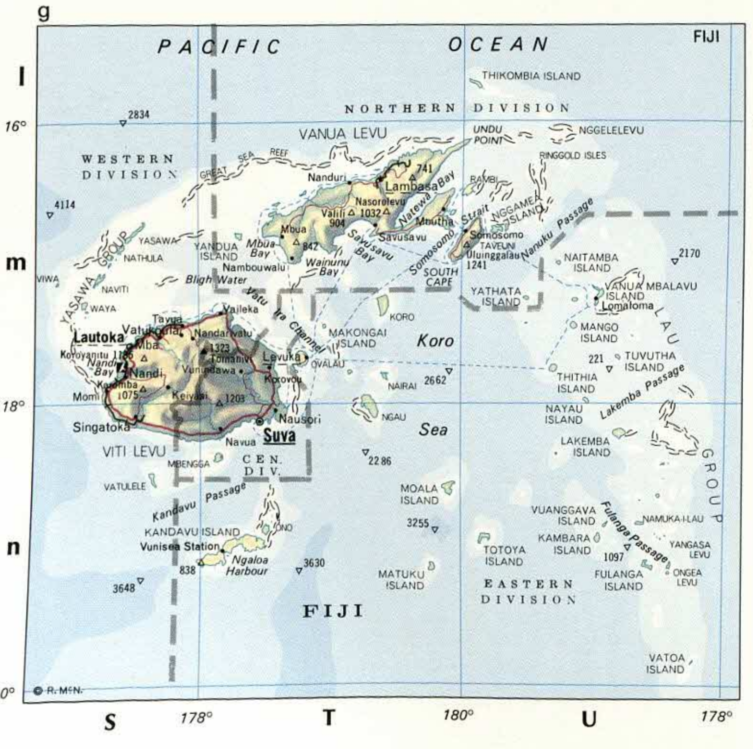
One centimeter represents 30 kilometers.

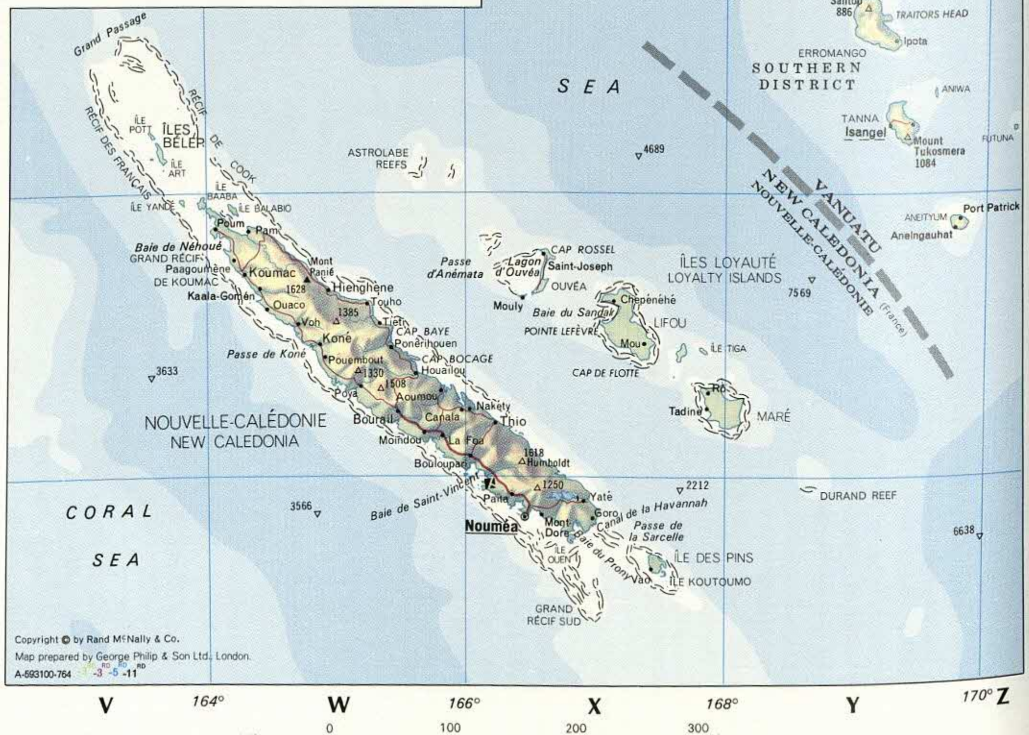
One inch represents approximately 47 miles.

Lambert Conformal Conic Projection









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A-593100-764

Kilometers 0 100 200 300 Km.

Statute Miles 0 100 200 300 Mi.

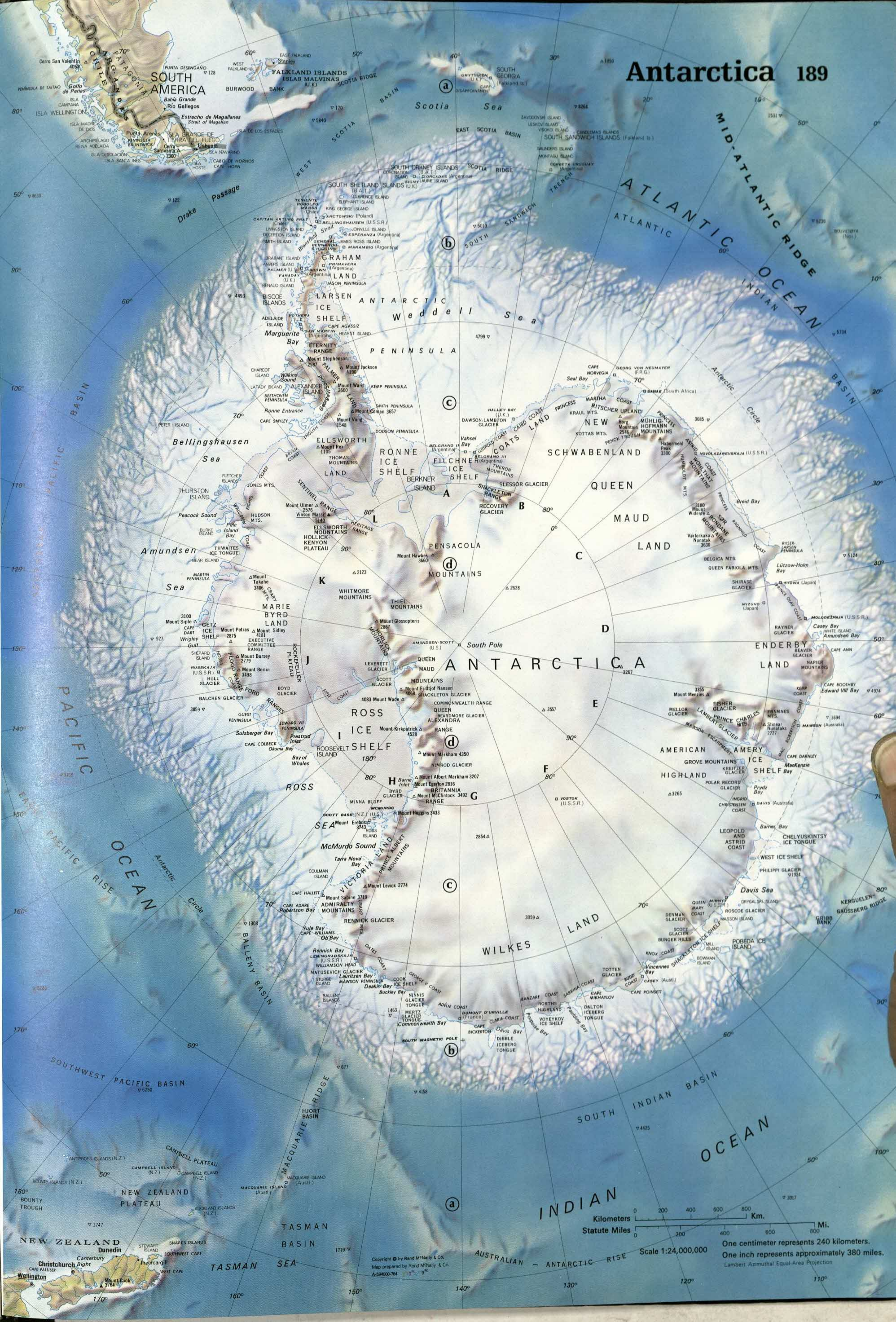
Scale 1:6,000,000

One centimeter represents 60 kilometers.

One inch represents approximately 95 miles.

Lambert Conformal Conic Projection

Antarctica



Kilometers 0 200 400 600 800 Km.
Statute Miles 0 200 400 600 Mi.
Scale 1:24,000,000
One centimeter represents 240 kilometers.
One inch represents approximately 380 miles.
Lambert Azimuthal Equal-Area Projection

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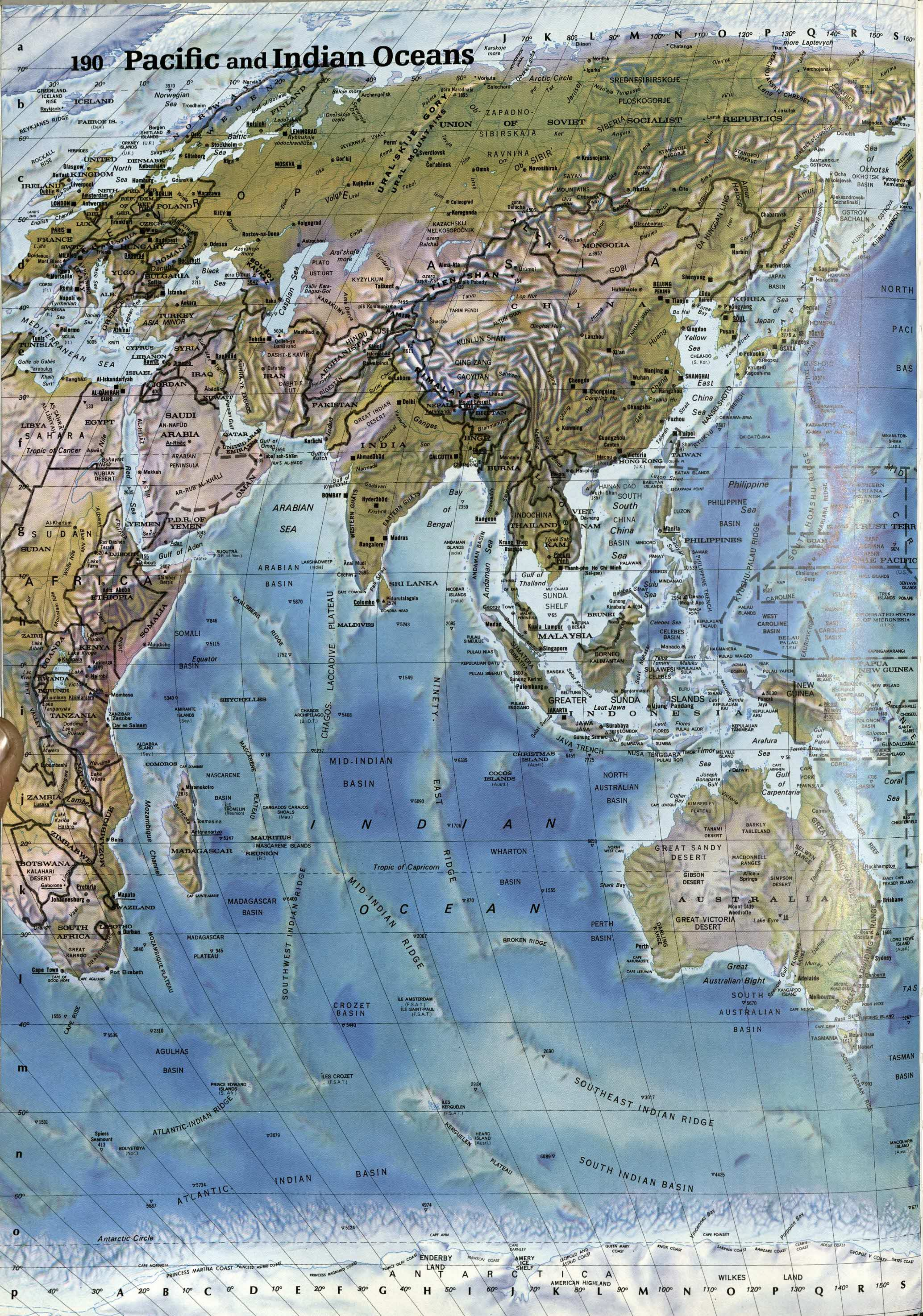
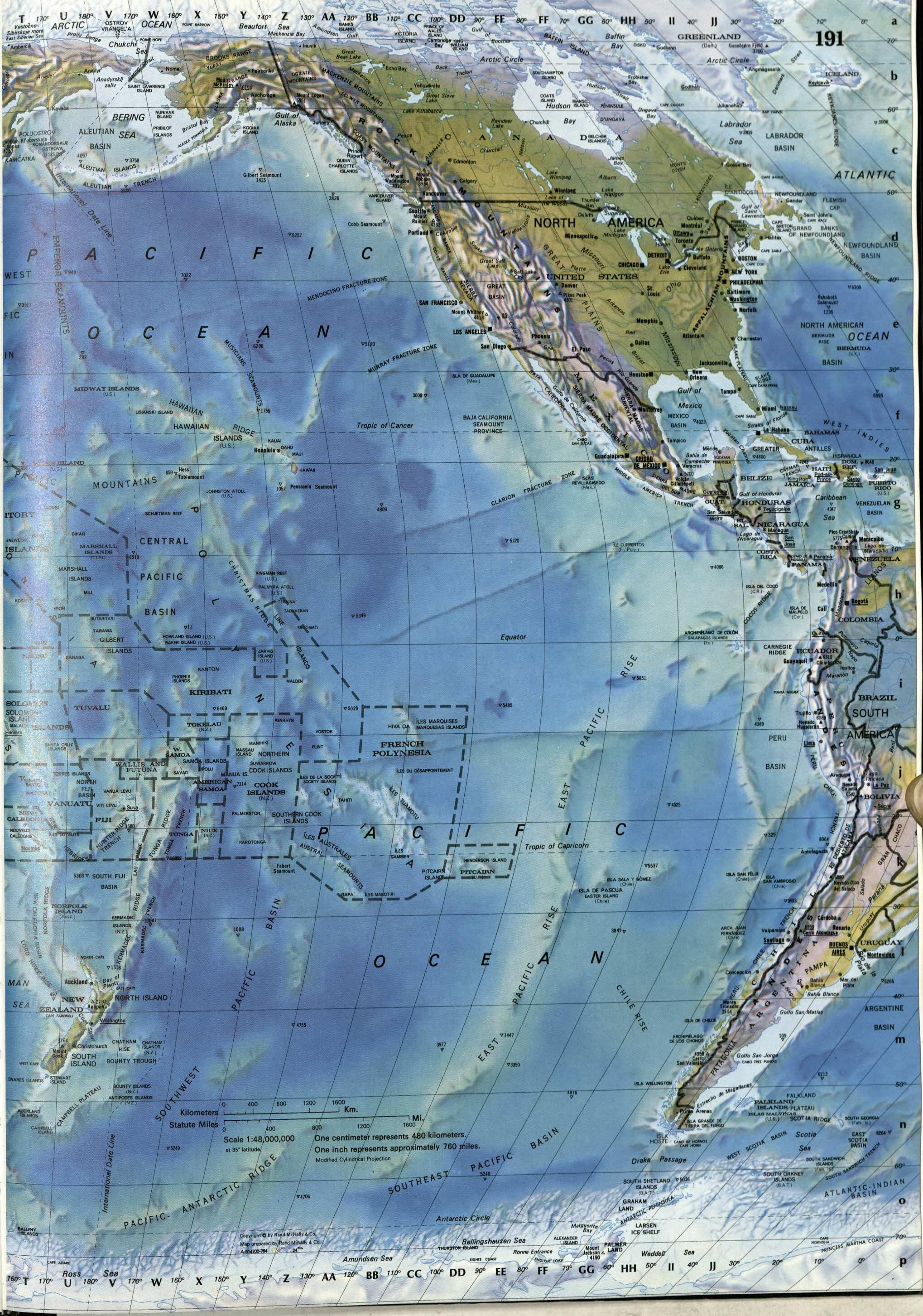
Map prepared by Rand McNally & Co.
A-594000-764

Pacific and Indian Oceans





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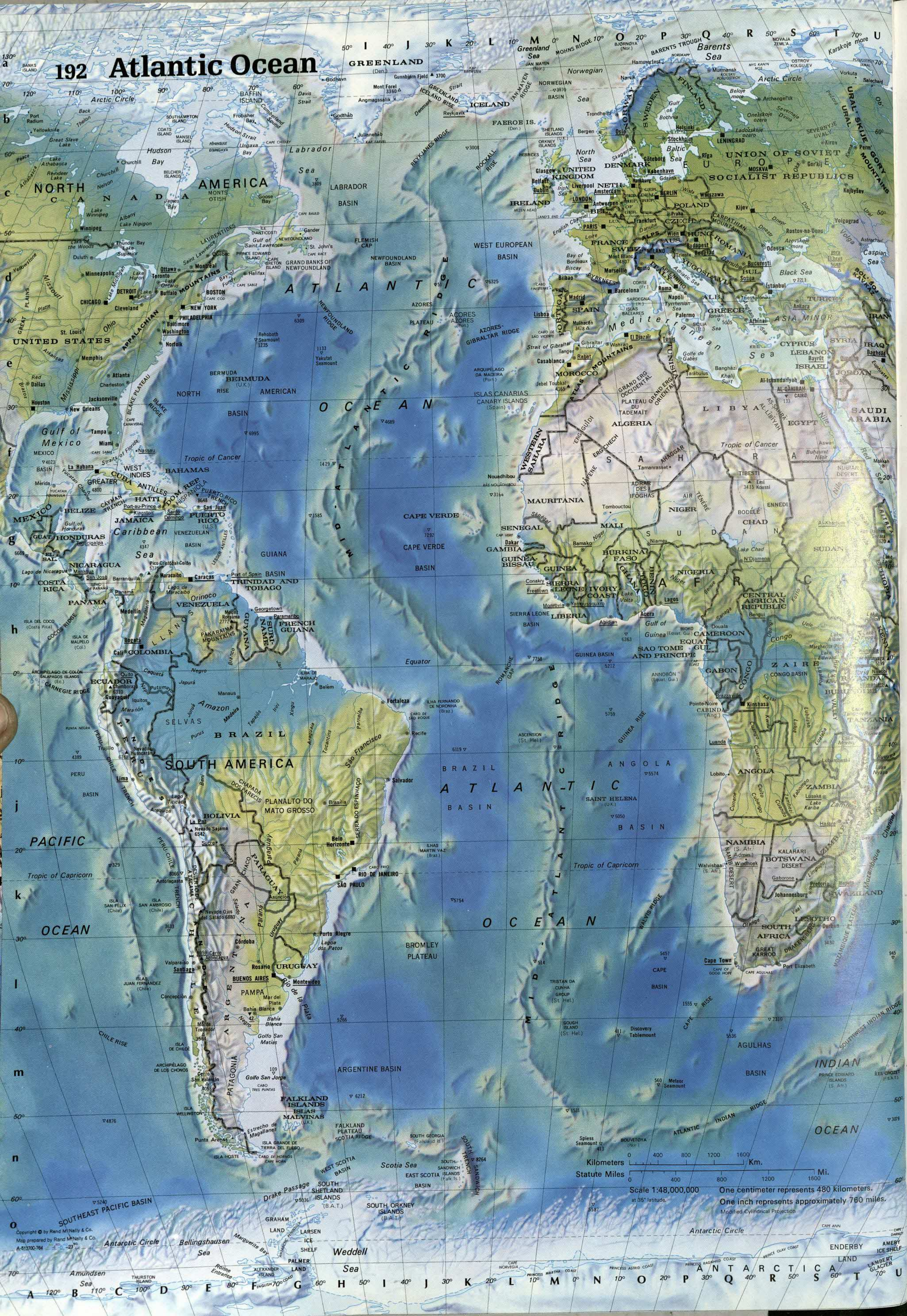
A-514700-264

Atlantic Ocean



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World Information Table

This table gives the area, population, population density, capital, and political status for every country in the world. The political units listed are categorized by political status in the last column of the table, as follows: A—independent countries; B—internally independent political entities which are under the protection of another country in matters of defense and foreign affairs; C—colonies and other dependent political units; and D—the major administrative subdivisions of Australia, Canada, China, the Soviet Union, the United Kingdom, and the United States. For comparison, the table also includes the continents and the world. For units categorized B, the protecting countries are identified in the political status column. For units categorized C, the names of administering countries are given in parentheses in the first column. A key to abbreviations of country names appears on page 197. All footnotes to this table appear on page 196.

The populations are estimates for January 1, 1987, made by Rand McNally & Company on the basis of official data, United Nations estimates, and other available information. Area figures include inland water.

English Name	Local Name	Area in sq. mi.	Area in sq. km.	Population	Pop. per sq. mi.	Pop. per sq. km.	Capital	Political Status
†Afghanistan	Afghānestān	245,664	636,266	18,950,000	77	30	Kābol	A
Africa	. . .	11,700,000	30,300,000	600,600,000	51	20	. . .	. . .
Alabama, U.S.	Alabama	51,704	133,913	4,065,000	79	30	Montgomery	D
Alaska, U.S.	Alaska	591,004	1,530,693	530,000	0.9	0.3	Juneau	D
†Albania	Shqipëri	11,100	28,748	3,045,000	274	106	Tiranë	A
Alberta, Can.	Alberta	255,287	661,190	2,395,000	9.4	3.6	Edmonton	D
†Algeria	Algérie (French) / Djazaïr (Arabic)	919,595	2,381,741	23,135,000	25	9.7	El Djazaïr (Algiers)	A
American Samoa (U.S.)	American Samoa (English) / Amerika Samoa (Samoan)	77	199	37,000	481	186	Pago Pago	C
Andorra	Andorra	175	453	50,000	286	110	Andorra	B(Sp., Fr.)
†Angola	Angola	481,354	1,246,700	9,150,000	19	7.3	Luanda	A
Anguilla	Anguilla	35	91	7,000	200	77	The Valley	B(U.K.)
Anhwei, China	Anhui	54,054	140,000	52,720,000	975	377	Hefei	D
Antarctica	. . .	5,400,000	14,000,000	(1)	0.0	0.0	. . .	. . .
†Antigua and Barbuda	Antigua and Barbuda	171	443	83,000	485	187	St. John's	A
†Argentina	Argentina	1,073,400	2,780,092	31,300,000	29	11	Buenos Aires	A
Arizona, U.S.	Arizona	114,002	295,264	3,220,000	28	11	Phoenix	D
Arkansas, U.S.	Arkansas	53,191	137,764	2,395,000	45	17	Little Rock	D
Armenian S.S.R., U.S.S.R.	Arm'anskaja S.S.R.	11,506	29,800	3,370,000	293	113	Jerevan	D
Aruba	Aruba	75	193	77,000	1,027	399	Oranjestad	B(Neth.)
Asia	. . .	17,300,000	44,900,000	2,985,300,000	173	66	. . .	. . .
†Australia	Australia	2,966,153	7,682,300	16,065,000	5.4	2.1	Canberra	A
Australian Capital Territory, Austl.	Australian Capital Territory	927	2,400	260,000	280	108	Canberra	D
†Austria	Österreich	32,377	83,855	7,550,000	233	90	Wien (Vienna)	A
Azerbaijan S.S.R., U.S.S.R.	Azerbajdžanskaja S.S.R.	33,436	86,600	6,710,000	201	77	Baku	D
†Bahamas	Bahamas	5,382	13,939	235,000	44	17	Nassau	A
†Bahrain	Al-Baḥrayn	256	662	435,000	1,699	657	Al-Manāmah	A
†Bangladesh	Bangladesh	55,598	143,998	102,510,000	1,844	712	Dhaka (Dacca)	A
†Barbados	Barbados	166	430	255,000	1,536	593	Bridgetown	A
†Belgium	Belgique (French) / België (Flemish)	11,783	30,518	9,855,000	836	323	Bruxelles (Brussels)	A
†Belize	Belize	8,866	22,963	170,000	19	7.4	Belmopan	A
†Benin	Bénin	43,484	112,622	4,095,000	94	36	Porto-Novo and Cotonou	A
Bermuda (U.K.)	Bermuda	21	54	59,000	2,810	1,093	Hamilton	C
†Bhutan	Druk-Yul	18,147	47,000	1,445,000	80	31	Thimbu	B(India)
†Bolivia	Bolivia	424,165	1,098,581	6,700,000	16	6.1	Sucre and La Paz	A
Bophuthatswana (2)	Bophuthatswana	15,444	40,000	1,730,000	112	43	Mmabatho	B(S. Afr.)
†Botswana	Botswana	224,711	582,000	1,155,000	5.1	2.0	Gaborone	A
†Brazil	Brasil	3,286,488	8,511,965	140,440,000	43	16	Brasília	A
British Columbia, Can.	British Columbia (English) / Colombie-Britannique (French)	365,948	947,800	2,925,000	8.0	3.1	Victoria	D
British Indian Ocean Territory (U.K.)	British Indian Ocean Territory	23	60	300	13	5.0	. . .	C
†Brunei	Brunei	2,226	5,765	235,000	106	41	Bandar Seri Begawan	A
†Bulgaria	Bâlgarija	42,823	110,912	8,985,000	210	81	Sofija (Sofia)	A
†Burkina Faso	Burkina Faso	105,792	274,000	7,195,000	68	26	Ouagadougou	A
†Burma	Myanmā	261,228	676,577	37,970,000	145	56	Rangoon	A
†Burundi	Burundi	10,745	27,830	5,000,000	465	180	Bujumbura	A
†Byelorussian S.S.R., U.S.S.R.	Belorusskaja S.S.R.	80,155	207,600	10,110,000	126	49	Minsk	D
California, U.S.	California	158,704	411,041	26,715,000	168	65	Sacramento	D
†Cameroon	Cameroun (French) / Cameroon (English)	183,569	475,442	10,145,000	55	21	Yaoundé	A
†Canada	Canada	3,849,674	9,970,610	25,740,000	6.7	2.6	Ottawa	A
†Cape Verde	Cabo Verde	1,557	4,033	320,000	206	79	Praia	A
Cayman Islands (U.K.)	Cayman Islands	100	259	22,000	220	85	Georgetown	C
†Central African Republic	République centrafricaine	240,535	622,984	2,785,000	12	4.5	Bangui	A
†Chad	Tchad	495,755	1,284,000	5,265,000	11	4.1	N'Djamena	A
Chekiang, China	Zhejiang	39,382	102,000	41,170,000	1,045	404	Hangzhou	D
†Chile	Chile	292,135	756,626	12,330,000	42	16	Santiago	A
†China (excl. Taiwan)	Zhongguo	3,718,783	9,631,600	1,069,410,000	288	111	Beijing (Peking)	A
Christmas Island (Austl.)	Christmas Island	52	135	3,900	75	29	. . .	C
Ciskei (2)	Ciskei	2,080	5,386	770,000	370	143	Bisho	B(S. Afr.)
Cocos (Keeling) Islands (Austl.)	Cocos (Keeling) Islands	5.4	14	700	130	50	. . .	C
†Colombia	Colombia	440,831	1,141,748	29,340,000	67	26	Bogotá	A
Colorado, U.S.	Colorado	104,094	269,602	3,265,000	31	12	Denver	D
†Comoros	Comores (French) / Al-Qumur (Arabic)	838	2,171	435,000	519	200	Moroni	A
†Congo	Congo	132,047	342,000	2,000,000	15	5.8	Brazzaville	A
Connecticut,U.S.	Connecticut	5,019	12,999	3,195,000	637	246	Hartford	D
Cook Islands	Cook Islands	91	236	18,000	198	76	Avarua	B(N.Z.)
†Costa Rica	Costa Rica	19,730	51,100	2,690,000	136	53	San José	A
†Cuba	Cuba	42,804	110,861	10,225,000	239	92	La Habana (Havana)	A
†Cyprus	Kípros (Greek) / Kıbrıs (Turkish)	3,572	9,251	675,000	189	73	Levkosia (Nicosia)	A
†Czechoslovakia	Československo	49,384	127,903	15,525,000	314	121	Praha (Prague)	A
Delaware, U.S.	Delaware	2,045	5,297	630,000	308	119	Dover	D
†Denmark	Danmark	16,633	43,080	5,120,000	308	119	København	A
District of Columbia, U.S.	District of Columbia	69	179	630,000	9,130	3,520	Washington	D
†Djibouti	Djibouti	8,880	23,000	310,000	35	13	Djibouti	A
†Dominica	Dominica	290	752	75,000	259	100	Roseau	A
†Dominican Republic	República Dominicana	18,704	48,442	6,460,000	345	133	Santo Domingo	A
†Ecuador	Ecuador	109,484	283,561	9,770,000	89	34	Quito	A
†Egypt	Mişr	386,662	1,001,450	50,540,000	131	50	Al-Qāhirah (Cairo)	A
†El Salvador	El Salvador	8,124	21,041	5,000,000	615	238	San Salvador	A
England, U.K.	England	50,363	130,439	46,975,000	933	360	London	D
†Equatorial Guinea	Guinea Ecuatorial	10,831	28,051	325,000	30	12	Malabo	A
Estonian S.S.R., U.S.S.R.	Estonskaja S.S.R.	17,413	45,100	1,545,000	89	34	Tallinn	D
†Ethiopia	Ityopiya	472,435	1,223,600	45,170,000	96	37	Adis Abeba	A
Europe	. . .	3,800,000	9,900,000	680,100,000	179	69	. . .	. . .
Faeroe Islands	Føroyar	540	1,399	46,000	85	33	Tórshavn	B(Den.)
Falkland Islands (excl. Dependencies) (U.K.) (3)	Falkland Islands (English) / Islas Malvinas (Spanish)	4,700	12,173	2,000	0.4	0.2	Stanley	C
†Fiji	Fiji	7,078	18,333	720,000	102	39	Suva	A
†Finland	Suomi (Finnish) / Finland (Swedish)	130,559	338,145	4,950,000	38	15	Helsinki (Helsingfors)	A
Florida, U.S.	Florida	58,668	151,949	11,520,000	196	76	Tallahassee	D
†France (excl. Overseas Departments)	France	211,208	547,026	55,500,000	263	101	Paris	A
French Guiana, Fr.	Guyane française	35,135	91,000	85,000	2.4	0.9	Cayenne	D

World Information Table

English Name	Local Name	Area in sq. mi.	Area in sq. km.	Population	Pop. per sq. mi.	Pop. per sq. km.	Capital	Political Status
French Polynesia (Fr.)	Polynésie française	1,544	4,000	185,000	120	46	Papeete	C
Fukien, China	Fujian	47,491	123,000	27,700,000	583	225	Fuzhou	D
†Gabon	Gabon	103,347	267,667	1,030,000	10	3.8	Libreville	A
†Gambia	Gambia	4,361	11,295	780,000	179	69	Banjul	A
Georgia, U.S.	Georgia	58,914	152,587	6,050,000	103	40	Atlanta	D
Georgian S.S.R., U.S.S.R.	Gruzinskaja S.S.R.	26,911	69,700	5,280,000	196	76	Tbilisi	D
†German Democratic Republic	Deutsche Demokratische Republik	41,828	108,333	16,595,000	397	153	Berlin, Ost- (East Berlin)	A
†Germany, Federal Republic of	Bundesrepublik Deutschland	96,032	248,717	60,925,000	634	245	Bonn	A
†Ghana	Ghana	92,098	238,533	13,630,000	148	57	Accra	A
Gibraltar (U.K.)	Gibraltar	2.3	6.0	31,000	13,478	5,167	Gibraltar	C
†Greece	Ellás	50,944	131,944	9,995,000	196	76	Athínai (Athens)	A
Greenland	Kalaallit Nunaat (Eskimo) / Grønland (Danish)	840,004	2,175,600	54,000	0.1	0.0	Godthåb	B(Den.)
†Grenada	Grenada	133	344	86,000	647	250	St. George's	A
Guadeloupe (incl. Dependencies), Fr.	Guadeloupe	687	1,780	335,000	488	188	Basse-Terre	D
Guam (U.S.)	Guam	209	541	125,000	598	231	Agana	C
†Guatemala	Guatemala	42,042	108,889	8,310,000	198	76	Guatemala	A
Guernsey (incl. Dependencies) (U.K.)	Guernsey	30	77	79,000	2,633	1,026	St. Peter Port	C
†Guinea	Guinée	94,926	245,857	6,330,000	67	26	Conakry	A
†Guinea-Bissau	Guiné-Bissau	13,948	36,125	880,000	63	24	Bissau	A
†Guyana	Guyana	83,000	214,969	795,000	9.6	3.7	Georgetown	A
†Haiti	Haïti	10,714	27,750	5,925,000	553	214	Port-au-Prince	A
Hawaii, U.S.	Hawaii	6,473	16,765	1,065,000	165	64	Honolulu	D
Heilungkiang, China	Heilongjiang	177,607	460,000	33,795,000	190	73	Harbin	D
Honan, China	Henan	64,479	167,000	78,820,000	1,222	472	Zhengzhou	D
†Honduras	Honduras	43,277	112,088	4,710,000	109	42	Tegucigalpa	A
Hong Kong (U.K.)	Hong Kong	412	1,068	5,535,000	13,434	5,183	Hong Kong (Victoria)	C
Hopeh, China	Hebei	78,379	203,000	56,680,000	723	279	Shijiazhuang	D
Hunan, China	Hunan	81,468	211,000	57,430,000	705	272	Changsha	D
†Hungary	Magyarország	35,921	93,036	10,655,000	297	115	Budapest	A
Hupeh, China	Hubei	72,587	188,000	50,370,000	694	268	Wuhan	D
†Iceland	Ísland	39,769	103,000	245,000	6.2	2.4	Reykjavík	A
Idaho, U.S.	Idaho	83,566	216,435	1,015,000	12	4.7	Boise	D
Illinois, U.S.	Illinois	57,872	149,888	11,690,000	202	78	Springfield	D
†India	India (English) / Bharat (Hindi)	1,269,220	3,287,263	773,430,000	609	235	New Delhi	A
Indiana, U.S.	Indiana	36,417	94,320	5,565,000	153	59	Indianapolis	D
†Indonesia	Indonesia	741,101	1,919,443	168,460,000	227	88	Jakarta	A
Inner Mongolia, China	Nei Monggol	463,323	1,200,000	20,535,000	44	17	Hohhot	D
Iowa, U.S.	Iowa	56,275	145,752	2,930,000	52	20	Des Moines	D
†Iran	Īrān	636,296	1,648,000	46,130,000	72	28	Tehrān	A
†Iraq	Al-'Irāq	169,235	438,317	16,250,000	96	37	Baghdād	A
†Ireland	Ireland (English) / Éire (Gaelic)	27,136	70,283	3,590,000	132	51	Dublin (Baile Átha Cliath)	A
Isle of Man	Isle of Man	227	588	65,000	286	111	Douglas	B(U.K.)
†Israel	Yisra'el (Hebrew) / Isrā'īl (Arabic)	7,848	20,235	4,220,000	508	196	Yerushalayim (Jerusalem)	A
Israeli Occupied Areas (4)	. . .	2,703	7,000	1,730,000	640	247	. . .	. . .
†Italy	Italia	116,319	301,266	57,300,000	493	190	Roma (Rome)	A
†Ivory Coast	Côte d'Ivoire	123,847	320,763	10,680,000	86	33	Abidjan and Yamoussoukro (5)	A
†Jamaica	Jamaica	4,244	10,991	2,305,000	543	210	Kingston	A
†Japan	Nihon	145,834	377,708	121,770,000	835	322	Tōkyō	A
Jersey (U.K.)	Jersey	45	117	55,000	1,222	470	St. Helier	C
†Jordan	Al-Urdunn	35,135	91,000	2,795,000	80	31	'Ammān	A
†Kampuchea (Cambodia)	Kâmpŭchéa Prâchéathīpâtéyy	69,898	181,035	6,465,000	92	36	Phnum Pénh	A
Kansas, U.S.	Kansas	82,282	213,109	2,495,000	30	12	Topeka	D
Kansu, China	Gansu	150,580	390,000	20,855,000	138	53	Lanzhou	D
Kazakh S.S.R., U.S.S.R.	Kazachskaja S.S.R.	1,049,156	2,717,300	16,090,000	15	5.9	Alma-Ata	D
Kentucky, U.S.	Kentucky	40,414	104,672	3,775,000	93	36	Frankfort	D
†Kenya	Kenya	224,961	582,646	24,555,000	109	42	Nairobi	A
Kiangsi, China	Jiangxi	63,707	165,000	35,395,000	556	215	Nanchang	D
Kiangsu, China	Jiangsu	39,382	102,000	63,520,000	1,613	623	Nanjing (Nanking)	D
Kirghiz S.S.R., U.S.S.R.	Kirgizskaja S.S.R.	76,641	198,500	4,045,000	53	20	Frunze	D
Kiribati	Kiribati	275	712	65,000	236	91	Bairiki	A
Kirin, China	Jilin	72,201	187,000	23,525,000	326	126	Changchun	D
Korea, North	Chosŏn-minjujuŭi-inmīn-konghwaguk	46,540	120,538	20,745,000	446	172	P'yŏngyang	A
Korea, South	Taehan-min'guk	38,025	98,484	42,200,000	1,110	428	Sŏul (Seoul)	A
†Kuwait	Al-Kuwayt	6,880	17,818	1,800,000	262	101	Al-Kuwayt	A
Kwangsi Chuang, China	Guangxi Zhuangzu	91,506	237,000	39,570,000	432	167	Nanning	D
Kwangtung, China	Guangdong	89,190	231,000	63,950,000	717	277	Guangzhou (Canton)	D
Kweichow, China	Guizhou	67,182	174,000	30,370,000	452	175	Guiyang	D
†Laos	Lao	91,429	236,800	3,720,000	41	16	Viangchan (Vientiane)	A
Latvian S.S.R., U.S.S.R.	Latvijskaja S.S.R.	24,595	63,700	2,640,000	107	41	Rīga	D
†Lebanon	Al-Lubnān	4,015	10,400	2,700,000	672	260	Bayrūt (Beirut)	A
†Lesotho	Lesotho	11,720	30,355	1,575,000	134	52	Maseru	A
Liaoning, China	Liaoning	58,301	151,000	37,645,000	646	249	Shenyang (Mukden)	D
†Liberia	Liberia	43,000	111,369	2,290,000	53	21	Monrovia	A
†Libya	Lībiyā	679,362	1,759,540	3,930,000	5.8	2.2	Ṭarābulus (Tripoli)	A
Liechtenstein	Liechtenstein	62	160	28,000	452	175	Vaduz	A
Lithuanian S.S.R., U.S.S.R.	Litovskaja S.S.R.	25,174	65,200	3,625,000	144	56	Vilnius	D
Louisiana, U.S.	Louisiana	47,750	123,672	4,550,000	95	37	Baton Rouge	D
†Luxembourg	Luxembourg	998	2,586	365,000	366	141	Luxembourg	A
Macau (Port.)	Macau	6.2	16	405,000	65,323	25,313	Macau	C
†Madagascar	Madagasikara (Malagasy) / Madagascar (French)	226,658	587,041	10,375,000	46	18	Antananarivo	A
Maine, U.S.	Maine	33,265	86,156	1,185,000	36	14	Augusta	D
†Malawi	Malaŵi	45,747	118,484	7,405,000	162	62	Lilongwe	A
†Malaysia	Malaysia	127,502	330,228	15,975,000	125	48	Kuala Lumpur	A
†Maldives	Maldives	115	298	190,000	1,652	638	Male	A
†Mali	Mali	478,767	1,240,000	7,985,000	17	6.4	Bamako	A
†Malta	Malta	121	314	355,000	2,934	1,131	Valletta	A
Manitoba, Can.	Manitoba	250,947	649,950	1,085,000	4.3	1.7	Winnipeg	D
Marshall Islands (Trust Territory)	Marshall Islands	70	181	37,000	529	204	Majuro (island)	B(U.S.)
Martinique, Fr.	Martinique	425	1,100	330,000	776	300	Fort-de-France	D
Maryland, U.S.	Maryland	10,461	27,094	4,455,000	426	164	Annapolis	D
Massachusetts, U.S.	Massachusetts	8,286	21,461	5,905,000	713	275	Boston	D
†Mauritania	Mauritanie (French) / Mūrītāniyā (Arabic)	397,956	1,030,700	1,710,000	4.3	1.7	Nouakchott	A
†Mauritius (incl. Dependencies)	Mauritius	788	2,040	1,025,000	1,301	502	Port Louis	A
Mayotte, Fr. (6)	Mayotte	144	373	60,000	417	161	Dzaoudzi and Mamoudzou (5)	D
†Mexico	México	761,605	1,972,547	81,230,000	107	41	Ciudad de México (Mexico City)	A
Michigan, U.S.	Michigan	97,107	251,506	9,220,000	95	37	Lansing	D
Micronesia, Federated States of (Trust Territory)	Federated States of Micronesia	271	702	99,000	365	141	Kolonia	B(U.S.)

World Information Table

English Name	Local Name	Area in sq. mi.	Area in sq. km.	Population	Pop. per sq. mi.	Pop. per sq. km.	Capital	Political Status
Midway Islands (U.S.)	Midway Islands	2.0	5.2	500	250	96	. . .	C
Minnesota, U.S.	Minnesota	86,614	224,329	4,260,000	49	19	St. Paul	D
Mississippi, U.S.	Mississippi	47,691	123,519	2,640,000	55	21	Jackson	D
Missouri, U.S.	Missouri	69,697	180,514	5,105,000	73	28	Jefferson City	D
Moldavian S.S.R., U.S.S.R.	Moldavskaja S.S.R.	13,012	33,700	4,185,000	322	124	Kišin'ov (Kishinev)	D
Monaco	Monaco	0.6	1.5	28,000	46,667	18,667	Monaco	A
†Mongolia	Mongol Ard Uls	604,250	1,565,000	1,965,000	3.3	1.3	Ulaanbaatar (Ulan Bator)	A
Montana, U.S.	Montana	147,045	380,845	845,000	5.7	2.2	Helena	D
Montserrat (U.K.)	Montserrat	40	103	12,000	300	117	Plymouth	C
†Morocco (excl. Western Sahara)	Al-Magrib	172,414	446,550	23,915,000	139	54	Rabat	A
†Mozambique	Moçambique	308,642	799,379	14,210,000	46	18	Maputo	A
Namibia (excl. Walvis Bay)(S. Afr.) (7)	Namibia	318,261	824,292	1,180,000	3.7	1.4	Windhoek	C
Nauru	Nauru (English) / Naoero (Nauruan)	8.1	21	9,000	1,111	429	Yaren District	A
Nebraska, U.S.	Nebraska	77,350	200,336	1,620,000	21	8.1	Lincoln	D
†Nepal	Nepāl	56,827	147,181	17,310,000	305	118	Kathmandu	A
†Netherlands	Nederland	16,042	41,548	14,570,000	908	351	Amsterdam and 's-Gravenhage (The Hague)	A
Netherlands Antilles	Nederlandse Antillen	309	800	235,000	761	294	Willemstad	B(Neth.)
Nevada, U.S.	Nevada	110,562	286,354	945,000	8.5	3.3	Carson City	D
New Brunswick, Can.	New Brunswick (English) / Nouveau-Brunswick (French)	28,355	73,440	725,000	26	9.9	Fredericton	D
New Caledonia, Fr.	Nouvelle-Calédonie	7,366	19,079	155,000	21	8.1	Nouméa	D
Newfoundland, Can.	Newfoundland (English) / Terre-Neuve (French)	156,649	405,720	585,000	3.7	1.4	St. John's	D
New Hampshire, U.S.	New Hampshire	9,278	24,030	1,015,000	109	42	Concord	D
New Jersey, U.S.	New Jersey	7,787	20,168	7,670,000	985	380	Trenton	D
New Mexico, U.S.	New Mexico	121,594	314,927	1,475,000	12	4.7	Santa Fe	D
New South Wales, Austl.	New South Wales	309,500	801,600	5,585,000	18	7.0	Sydney	D
New York, U.S.	New York	52,737	136,588	18,025,000	342	132	Albany	D
†New Zealand	New Zealand	103,515	268,103	3,315,000	32	12	Wellington	A
†Nicaragua	Nicaragua	50,193	130,000	3,390,000	68	26	Managua	A
†Niger	Niger	489,191	1,267,000	6,820,000	14	5.4	Niamey	A
†Nigeria	Nigeria	356,669	923,768	107,250,000	301	116	Lagos and Abuja(5)	A
Ningsia Hui, China	Ningxia Huizu	25,483	66,000	4,280,000	168	65	Yinchuan	D
Niue	Niue	102	263	3,000	29	11	Alofi	B(N.Z.)
Norfolk Island (Austl.)	Norfolk Island	14	36	2,000	143	56	Kingston	C
North America	. . .	9,400,000	24,400,000	407,200,000	43	17	. . .	. . .
North Carolina, U.S.	North Carolina	52,669	136,412	6,340,000	120	46	Raleigh	D
North Dakota, U.S.	North Dakota	70,702	183,117	700,000	9.9	3.8	Bismarck	D
Northern Ireland, U.K.	Northern Ireland	5,453	14,122	1,575,000	289	112	Belfast	D
Northern Mariana Islands (Trust Territory)	Northern Mariana Islands	184	477	21,000	114	44	Saipan (island)	B(U.S.)
Northern Territory, Austl.	Northern Territory	519,771	1,346,200	145,000	0.3	0.1	Darwin	D
Northwest Territories, Can.	Northwest Territories (English) / Territoires du Nord-Ouest (French)	1,322,910	3,426,320	52,000	0.0	0.0	Yellowknife	D
†Norway (incl. Svalbard and Jan Mayen)	Norge	149,158	386,317	4,170,000	28	11	Oslo	A
Nova Scotia, Can.	Nova Scotia (English) / Nouvelle-Écosse (French)	21,425	55,490	890,000	42	16	Halifax	D
Oceania (incl. Australia)	. . .	3,300,000	8,500,000	25,100,000	7.6	3.0	. . .	. . .
Ohio, U.S.	Ohio	44,786	115,995	10,890,000	243	94	Columbus	D
Oklahoma, U.S.	Oklahoma	69,957	181,188	3,340,000	48	18	Oklahoma City	D
†Oman	'Umān	82,030	212,457	1,285,000	16	6.0	Masqaṭ (Muscat)	A
Ontario, Can.	Ontario	412,581	1,068,580	9,225,000	22	8.6	Toronto	D
Oregon, U.S.	Oregon	97,076	251,426	2,735,000	28	11	Salem	D
Pacific Islands, Trust Territory of the	Trust Territory of the Pacific Islands	717	1,857	170,000	237	92	Saipan (island)	B(U.S.)
†Pakistan	Pākistān	339,732	879,902	103,510,000	305	118	Islāmābād	A
Palau (Trust Territory)	Palau (English) / Belau (Palauan)	192	497	13,000	68	26	Koror	B(U.S.)
†Panama	Panamá	29,762	77,082	2,250,000	76	29	Panamá	A
†Papua New Guinea	Papua New Guinea	178,704	462,840	3,440,000	19	7.4	Port Moresby	A
†Paraguay	Paraguay	157,048	406,752	4,070,000	26	10	Asunción	A
Peking, China	Beijing	6,487	16,800	9,840,000	1,517	586	Beijing (Peking)	D
Pennsylvania, U.S.	Pennsylvania	46,047	119,261	12,000,000	261	101	Harrisburg	D
†Peru	Perú	496,225	1,285,216	20,435,000	41	16	Lima	A
†Philippines	Pilipinas	115,831	300,000	55,930,000	483	186	Manila	A
Pitcairn (incl. Dependencies) (U.K.)	Pitcairn	19	49	55	2.9	1.1	Adamstown	C
†Poland	Polska	120,728	312,683	37,635,000	312	120	Warszawa (Warsaw)	A
†Portugal	Portugal	35,516	91,985	10,320,000	291	112	Lisboa (Lisbon)	A
Prince Edward Island, Can.	Prince Edward Island (English) / Île-du Prince-Édouard (French)	2,185	5,660	130,000	59	23	Charlottetown	D
Puerto Rico	Puerto Rico	3,515	9,104	3,310,000	942	364	San Juan	B (U.S.)
†Qatar	Qaṭar	4,247	11,000	310,000	73	28	Ad-Dawḥah (Doha)	A
Quebec, Can.	Québec	594,860	1,540,680	6,675,000	11	4.3	Québec	D
Queensland, Austl.	Queensland	666,876	1,727,200	2,600,000	3.9	1.5	Brisbane	D
Reunion, Fr.	Réunion	967	2,504	540,000	558	216	Saint-Denis	D
Rhode Island, U.S.	Rhode Island	1,212	3,139	990,000	817	315	Providence	D
†Romania	România	91,699	237,500	22,905,000	250	96	București (Bucharest)	A
Russian Soviet Federative Socialist Republic, U.S.S.R.	Rossijskaja S.F.S.R.	6,592,849	17,075,400	145,470,000	22	8.5	Moskva (Moscow)	D
†Rwanda	Rwanda	10,169	26,338	6,505,000	640	247	Kigali	A
†St. Christopher-Nevis	St. Christopher-Nevis	104	269	40,000	385	149	Basseterre	A
St. Helena (incl. Dependencies) (U.K.)	St. Helena	162	419	8,100	50	19	Jamestown	C
†St. Lucia	St. Lucia	238	616	139,000	584	226	Castries	A
St. Pierre and Miquelon, Fr.	Saint-Pierre-et-Miquelon	93	242	6,100	66	25	Saint-Pierre	D
†St. Vincent and the Grenadines	St. Vincent and the Grenadines	150	388	104,000	693	268	Kingstown	A
San Marino	San Marino	24	61	23,000	958	377	San Marino	A
†Sao Tome and Principe	São Tomé e Príncipe	372	964	110,000	296	114	São Tomé	A
Saskatchewan, Can.	Saskatchewan	251,866	652,330	1,030,000	4.1	1.6	Regina	D
†Saudi Arabia	Al-'Arabīyah as-Su'ūdīyah	830,000	2,149,690	11,685,000	14	5.4	Ar-Riyāḍ (Riyadh)	A
Scotland, U.K.	Scotland	29,794	77,167	5,150,000	173	67	Edinburgh	D
†Senegal	Sénégal	75,955	196,722	6,515,000	86	33	Dakar	A
†Seychelles	Seychelles	175	453	65,000	371	143	Victoria	A
Shanghai, China	Shanghai	2,239	5,800	12,405,000	5,540	2,139	Shanghai	D
Shansi, China	Shanxi	60,618	157,000	26,840,000	443	171	Taiyuan	D
Shantung, China	Shandong	59,074	153,000	78,600,000	1,331	514	Jinan	D
Shensi, China	Shaanxi	75,676	196,000	30,690,000	406	157	Xi'an (Sian)	D
†Sierra Leone	Sierra Leone	27,925	72,325	3,795,000	136	52	Freetown	A
†Singapore	Singapore	239	620	2,620,000	10,962	4,226	Singapore	A
Sinkiang Uighur, China	Xinjiang Uygur	635,910	1,647,000	13,900,000	22	8.4	Ürümqi	D
†Solomon Islands	Solomon Islands	11,506	29,800	285,000	25	9.6	Honiara	A
†Somalia	Somaliya	246,201	637,657	7,935,000	32	12	Muqdisho (Mogadishu)	A

World Information Table

English Name	Local Name	Area in sq. mi.	Area in sq. km.	Population	Pop. per sq. mi.	Pop. per sq. km.	Capital	Political Status
†South Africa (incl. Walvis Bay)	South Africa (English) / Suid-Afrika (Afrikaans)	433,680	1,123,226	33,585,000	77	30	Pretoria, Cape Town, and Bloemfontein	A
South America	. . .	6,900,000	17,800,000	276,700,000	40	16	. . .	. . .
South Australia, Austl.	South Australia	379,925	984,000	1,390,000	3.7	1.4	Adelaide	D
South Carolina, U.S.	South Carolina	31,116	80,590	3,390,000	109	42	Columbia	D
South Dakota, U.S.	South Dakota	77,120	199,740	725,000	9.4	3.6	Pierre	D
South Georgia (incl. Dependencies) (Falk. Is.)	. . .	1,450	3,755	20	0.0	0.0	. . .	C
†Spain	España	194,885	504,750	39,680,000	204	79	Madrid	A
Spanish North Africa (Sp.) (8)	Plazas de Soberanía en el Norte de África	12	32	150,000	12,500	4,688	. . .	C
†Sri Lanka	Sri Lanka	24,962	64,652	16,195,000	649	250	Colombo and Sri Jayawardenapura (5)	A
†Sudan	As-Sūdān	967,500	2,505,813	23,730,000	25	9.5	Al-Kharṭūm (Khartoum)	A
†Suriname	Suriname	63,037	163,265	405,000	6.4	2.5	Paramaribo	A
†Swaziland	Swaziland	6,704	17,364	700,000	104	40	Mbabane	A
†Sweden	Sverige	158,661	410,929	8,350,000	53	20	Stockholm	A
Switzerland	Schweiz (German) / Suisse (French) / Svizzera (Italian)	15,943	41,293	6,465,000	406	157	Bern (Berne)	A
†Syria	As-Sūrīyah	71,498	185,180	10,790,000	151	58	Dimashq (Damascus)	A
Szechwan, China	Sichuan	219,692	569,000	104,160,000	474	183	Chengdu	D
Taiwan	T'aiwan	13,900	36,002	19,685,000	1,416	547	T'aipei	A
Tajik S.S.R., U.S.S.R.	Tajikskaja S.S.R.	55,251	143,100	4,575,000	83	32	Dušanbe	D
†Tanzania	Tanzania	364,900	945,087	22,810,000	63	24	Dar es Salaam and Dodoma (5)	A
Tasmania, Austl.	Tasmania	26,178	67,800	450,000	17	6.6	Hobart	D
Tennessee, U.S.	Tennessee	42,143	109,150	4,815,000	114	44	Nashville	D
Texas, U.S.	Texas	266,805	691,022	16,600,000	62	24	Austin	D
†Thailand	Prathet Thai	198,115	513,115	52,690,000	266	103	Krung Thep (Bangkok)	A
Tibet, China	Xizang	471,817	1,222,000	2,030,000	4.3	1.7	Lhasa	D
Tientsin, China	Tianjin	4,247	11,000	8,235,000	1,939	749	Tianjin (Tientsin)	D
†Togo	Togo	21,925	56,785	3,165,000	144	56	Lomé	A
Tokelau (N.Z.)	Tokelau	4.6	12	1,500	326	125	. . .	C
Tonga	Tonga	270	699	99,000	367	142	Nuku'alofa	A
Transkei (2)	Transkei	16,816	43,553	2,765,000	164	63	Umtata	B(S. Afr.)
†Trinidad and Tobago	Trinidad and Tobago	1,980	5,128	1,215,000	614	237	Port of Spain	A
Tsinghai, China	Qinghai	278,380	721,000	4,170,000	15	5.8	Xining	D
†Tunisia	Tunisie (French) / Tunis (Arabic)	63,170	163,610	7,500,000	119	46	Tunis	A
†Turkey	Türkiye	300,948	779,452	53,450,000	178	69	Ankara	A
Turkmen S.S.R., U.S.S.R.	Turkmenskaja S.S.R.	188,456	488,100	3,230,000	17	6.6	Aščhabad	D
Turks and Caicos Islands (U.K.)	Turks and Caicos Islands	166	430	8,900	54	21	Grand Turk	C
Tuvalu	Tuvalu	10	26	8,400	840	323	Funafuti	A
†Uganda	Uganda	93,104	241,139	15,505,000	167	64	Kampala	A
†Ukrainian S.S.R., U.S.S.R.	Ukrainskaja S.S.R.	233,090	603,700	51,675,000	222	86	Kijev (Kiev)	D
†Union of Soviet Socialist Republics	Sojuz Sovetskich Socialističeskich Respublik	8,600,387	22,274,900	280,830,000	33	13	Moskva (Moscow)	A
†United Arab Emirates	Ittiḥād al-Imārāt al-'Arabīyah	32,278	83,600	1,345,000	42	16	Abū Ẓaby (Abu Dhabi)	A
†United Kingdom	United Kingdom	93,629	242,496	56,510,000	604	233	London	A
†United States	United States	3,679,245	9,529,202	241,960,000	66	25	Washington	A
†Uruguay	Uruguay	68,037	176,215	2,965,000	44	17	Montevideo	A
Utah, U.S.	Utah	84,902	219,895	1,670,000	20	7.6	Salt Lake City	D
Uzbek S.S.R., U.S.S.R.	Uzbekskaja S.S.R.	172,742	447,400	18,280,000	106	41	Taškent	D
†Vanuatu	Vanuatu	4,706	12,189	138,000	29	11	Port-Vila	A
Vatican City	Città del Vaticano	0.2	0.4	700	3,500	1,750	Città del Vaticano (Vatican City)	A
Venda (2)	Venda	2,393	6,198	410,000	171	66	Thohoyandou	B(S. Afr.)
†Venezuela	Venezuela	352,145	912,050	17,990,000	51	20	Caracas	A
Vermont, U.S.	Vermont	9,614	24,900	530,000	55	21	Montpelier	D
Victoria, Austl.	Victoria	87,877	227,600	4,200,000	48	18	Melbourne	D
†Vietnam	Viet Nam	127,242	329,556	62,670,000	493	190	Ha-noi	A
Virginia, U.S.	Virginia	40,763	105,576	5,785,000	142	55	Richmond	D
Virgin Islands (U.S.)	Virgin Islands (U.S.)	133	344	116,000	872	337	Charlotte Amalie	C
Virgin Islands, British (U.K.)	British Virgin Islands	59	153	12,000	203	78	Road Town	C
Wake Island (U.S.)	Wake Island	3.0	7.8	300	100	38	. . .	C
Wales, U.K.	Wales	8,019	20,768	2,810,000	350	135	Cardiff	D
Wallis and Futuna (Fr.)	Wallis et Futuna	98	255	14,000	143	55	Mata-Utu	C
Washington, U.S.	Washington	68,139	176,479	4,475,000	66	25	Olympia	D
Western Australia, Austl.	Western Australia	975,101	2,525,500	1,435,000	1.5	0.6	Perth	D
Western Sahara	. . .	102,703	266,000	95,000	0.9	0.4	El Aaiún	. . .
†Western Samoa	Western Samoa (English) / Samoa i Sisifo (Samoan)	1,097	2,842	165,000	150	58	Apia	A
West Virginia, U.S.	West Virginia	24,236	62,771	1,960,000	81	31	Charleston	D
Wisconsin, U.S.	Wisconsin	66,213	171,491	4,840,000	73	28	Madison	D
Wyoming, U.S.	Wyoming	97,808	253,322	510,000	5.2	2.0	Cheyenne	D
†Yemen	Al-Yaman	75,290	195,000	9,495,000	126	49	Ṣan'ā'	A
†Yemen, People's Democratic Republic of	Jumhūrīyat al-Yaman ad-Dīmuqrāṭīyah ash-Sha'bīyah	128,560	332,968	2,400,000	19	7.2	'Adan (Aden)	A
†Yugoslavia	Jugoslavija	98,766	255,804	23,365,000	237	91	Beograd (Belgrade)	A
Yukon Territory, Can.	Yukon Territory	186,661	483,450	23,000	0.1	0.0	Whitehorse	D
Yunnan, China	Yunnan	168,341	436,000	34,865,000	207	80	Kunming	D
†Zaire	Zaïre	905,568	2,345,409	31,740,000	35	14	Kinshasa	A
†Zambia	Zambia	290,586	752,614	6,965,000	24	9.3	Lusaka	A
†Zimbabwe	Zimbabwe	150,873	390,759	8,800,000	58	23	Harare (Salisbury)	A
WORLD	. . .	57,800,000	149,800,000	4,975,000,000	86	33	. . .	. . .

† Member of the United Nations (1986).
. . . None, or not applicable.
(1) No permanent population.
(2) Bophuthatswana, Ciskei, Transkei, and Venda are not recognized by the United Nations.
(3) Claimed by Argentina.
(4) Includes West Bank, Golan Heights, and Gaza Strip.
(5) Future capital.
(6) Claimed by Comoros.
(7) In October 1966 the United Nations terminated the South African mandate over Namibia, a decision which South Africa did not accept.
(8) Comprises Ceuta, Melilla, and several small islands.

Introduction to the Index

This universal index includes in a single alphabetical list more than 42,000 names of features that appear on the reference maps. Each name is followed by a map-reference key and a page reference.

Names Local official names are used on the maps and in the index. The names are shown in full, including diacritical marks. Features that extend beyond the boundaries of one country and have no single official name are usually named in English. Many conventional English names and former names are cross-referenced to the official names. Names that appear in shortened versions on the maps due to space limitations are spelled out in full in the index. The portions of these names omitted from the maps are enclosed in brackets — for example, Acapulco [de Juárez].

Transliteration For names in languages not written in the Roman alphabet, the locally official transliteration system has been used where one exists. Thus, names in the Soviet Union and Bulgaria have been transliterated according to the systems adopted by the academies of science of these countries. Similarly, the transliteration for mainland Chinese names follows the Pinyin system, which has been officially adopted in mainland China. For languages with no one locally accepted system, notably Arabic, transliteration closely follows a system adopted by the United States Board on Geographic Names.

Abbreviation and Capitalization Abbreviations of names on the maps have been standardized as much as possible. Names that are abbreviated on the maps are generally spelled out in full in the index. Periods are used after all abbreviations regardless of local practice. The abbreviation 'St.' is used only for 'Saint.' 'Sankt' and other forms of this term are spelled out.

Most initial letters of names are capitalized, except for generic terms in the Soviet Union and a few Dutch names, such as "s-Gravenhage'. Capitalization of noninitial words in a name generally follows local practice.

Alphabetization Names are alphabetized in the order of the letters of the English alphabet. Spanish *ll* and *ch*, for example, are not treated as distinct letters. Furthermore, diacritical marks are disregarded in alphabetization — German or Scandinavian *ä* or *ö* are treated as *a* or *o*.

The names of physical features may appear inverted, since they are always alphabetized under the proper, not the generic, part of the name, thus: 'Gibraltar, Strait of ꭒ'. Otherwise every entry, whether consisting of one word or more, is alphabetized as a single continuous entity. 'Lakeland,' for example, appears after 'La Crosse' and before 'La Salle.' Names beginning with articles (Le Havre, Den Helder, Al-Qāhirah, As-Suways) are not inverted. Names beginning 'Mc' are alphabetized as though spelled 'Mac,' and names beginning 'St.', 'Ste.' and 'Sainte' as though spelled 'Saint.'

In the case of identical names, towns are listed first, then political divisions, then physical features. Entries that are completely identical (including symbols, discussed below) are distinguished by abbreviations of their official country names. The country abbreviations used for places in the United States, Canada and United Kingdom indicate the state, province or political division in which the feature is located. (See List of Abbreviations below).

Symbols City names are not followed by symbols. The names of all other features are followed by symbols that graphically represent broad categories of features, for example, ▲ for mountain (Everest, Mount ▲). Superior numbers indicate finer distinctions, for example, ▲^{1} for volcano (Fuji-san ▲^{1}). A complete list of symbols, including those with superior numbers, follows the List of Abbreviations.

All cross-references are indicated by the symbol →.

Map-Reference Keys and Page References The map-reference keys and page references are found in the last two columns of each entry.

Each map-reference key consists of a lowercase letter followed by one or two uppercase letters. Corresponding lowercase letters appear along the sides of the maps. Uppercase letters appear across the top and bottom of the maps.

Map-reference keys for point features, such as cities and mountain peaks, indicate the locations of the symbols. For extensive areal features, such as countries or mountain ranges, locations are given for the approximate center of the feature. Those for linear features, such as canals and rivers, are given for the location of the name.

The page number generally refers to the map that shows the feature at the best scale. Countries, mountain ranges and other extensive features are usually indexed to maps that both show the features completely and also show them in their relationship to broad areas. Page references to two-page maps always refer to the left-hand page. If a page contains several maps or insets, a lowercase letter identifies the specific map or inset.

List of Abbreviations

	LOCAL NAME	ENGLISH
Ab., Can.	Alberta	Alberta
Afg.	Afghānestān	Afghanistan
Afr.	—	Africa
Ak., U.S.	Alaska	Alaska
Al., U.S.	Alabama	Alabama
Alg.	Algérie / Djazaïr	Algeria
Am. Sam.	American Samoa / Amerika Samoa	American Samoa
And.	Andorra	Andorra
Ang.	Angola	Angola
Anguilla	Anguilla	Anguilla
Ant.	—	Antarctica
Antig.	Antigua and Barbuda	Antigua and Barbuda
Ar., U.S.	Arkansas	Arkansas
Arc. O.	—	Arctic Ocean
Arg.	Argentina	Argentina
Ar. Su.	Al-'Arabīyah as-Su'ūdīyah	Saudi Arabia
Aruba	Aruba	Aruba
Asia	—	Asia
Atl. O.	—	Atlantic Ocean
Austl.	Australia	Australia
Az., U.S.	Arizona	Arizona
Ba.	Bahamas	Bahamas
Baḥr.	Al-Baḥrayn	Bahrain
Barb.	Barbados	Barbados
B.A.T.	British Antarctic Territory	British Antarctic Territory
B.C., Can.	British Columbia /Colombie-Britannique	British Columbia
Bdi.	Burundi	Burundi
Bel.	Belgique / België	Belgium
Belize	Belize	Belize
Bénin	Bénin	Benin
Ber.	Bermuda	Bermuda
Ber. S.	—	Bering Sea
B.I.O.T.	British Indian Ocean Territory	British Indian Ocean Territory
Blg.	Bâlgarija	Bulgaria
Bngl.	Bangladesh	Bangladesh
Bol.	Bolivia	Bolivia
Boph.	Bophuthatswana	Bophuthatswana
Bots.	Botswana	Botswana
Bra.	Brasil	Brazil
B.R.D.	Bundesrepublik Deutschland	Federal Republic of Germany
Bru.	Brunei	Brunei
Br. Vir. Is.	British Virgin Islands	British Virgin Islands
Burkina	Burkina Faso	Burkina Faso
Ca., U.S.	California	California
Cam.	Cameroun / Cameroon	Cameroon
Can.	Canada	Canada
Carib. S.	—	Caribbean Sea
Cay. Is.	Cayman Islands	Cayman Islands
Centraf.	République centrafricaine	Central African Republic
Česko.	Československo	Czechoslovakia
Chile	Chile	Chile
Christ. I.	Christmas Island	Christmas Island
Ciskei	Ciskei	Ciskei
C. Iv.	Côte d'Ivoire	Ivory Coast
C.M.I.K.	Chosŏn-minjujuŭi-inmīn-konghwaguk	North Korea
Co., U.S.	Colorado	Colorado
Cocos Is.	Cocos (Keeling) Islands	Cocos (Keeling) Islands
Col.	Colombia	Colombia
Comores	Comores / Al-Qumur	Comoros
Congo	Congo	Congo
Cook Is.	Cook Islands	Cook Islands
C.R.	Costa Rica	Costa Rica
Ct., U.S.	Connecticut	Connecticut
Cuba	Cuba	Cuba
C.V.	Cabo Verde	Cape Verde
Dan.	Danmark	Denmark
D.C., U.S.	District of Columbia	District of Columbia
D.D.R.	Deutsche Demokratische Republik	German Democratic Republic
De., U.S.	Delaware	Delaware
Dji.	Djibouti	Djibouti
Dom.	Dominica	Dominica
D.Y.	Druk-Yul	Bhutan
Ec.	Ecuador	Ecuador
Ellás	Ellás	Greece
El Sal.	El Salvador	El Salvador
Eng., U.K.	England	England
Esp.	España	Spain
Europe	—	Europe
Falk. Is.	Falkland Islands / Islas Malvinas	Falkland Islands
Fiji	Fiji	Fiji
Fl., U.S.	Florida	Florida
Før.	Føroyar	Faeroe Islands
Fr.	France	France
Ga., U.S.	Georgia	Georgia
Gabon	Gabon	Gabon
Gam.	Gambia	Gambia
Ghana	Ghana	Ghana
Gib.	Gibraltar	Gibraltar
Gren.	Grenada	Grenada
Guad.	Guadeloupe	Guadeloupe
Guam	Guam	Guam
Guat.	Guatemala	Guatemala
Guernsey	Guernsey	Guernsey
Gui.-B.	Guiné-Bissau	Guinea-Bissau
Gui. Ecu.	Guinea Ecuatorial	Equatorial Guinea
Guinée	Guinée	Guinea
Guy.	Guyana	Guyana
Guy. fr.	Guyane française	French Guiana
Haï	Haïti	Haiti
Hi., U.S.	Hawaii	Hawaii
H.K.	Hong Kong	Hong Kong
Hond.	Honduras	Honduras
Ia., U.S.	Iowa	Iowa
Id., U.S.	Idaho	Idaho
I.I.A.	Ittiḥād al-Imārāt al-'Arabīyah	United Arab Emirates
Il.,U.S.	Illinois	Illinois
In., U.S.	Indiana	Indiana
India	India / Bharat	India
Ind. O.	—	Indian Ocean
Indon.	Indonesia	Indonesia
I. of Man	Isle of Man	Isle of Man
Īrān	Īrān	Iran
'Irāq	Al-'Irāq	Iraq
Ire.	Ireland / Éire	Ireland
Ísland	Ísland	Iceland
Isr. Occ.	—	Israeli Occupied Areas
It.	Italia	Italy
Ityo.	Ityopiya	Ethiopia
Jam.	Jamaica	Jamaica
Jersey	Jersey	Jersey
Jugo.	Jugoslavija	Yugoslavia
J.Y.D.S.	Jumhūrīyat al-Yaman ad-Dīmuqrāṭīyah ash-Sha'bīyah	People's Democratic Republic of Yemen
Kal. Nun.	Kalaallit Nunaat / Grønland	Greenland
Kam.	Kâmpŭchéa Prâchéathipâtéyy	Kampuchea (Cambodia)
Kenya	Kenya	Kenya
Kípros	Kípros / Kıbrıs	Cyprus
Kiribati	Kiribati	Kiribati
Ks., U.S.	Kansas	Kansas
Kuwayt	Al-Kuwayt	Kuwait
Ky., U.S.	Kentucky	Kentucky
La., U.S.	Louisiana	Louisiana
Lao	Lao	Laos
Leso.	Lesotho	Lesotho
Liber.	Liberia	Liberia
Lībiyā	Lībiyā	Libya
Liech.	Liechtenstein	Liechtenstein
Lubnān	Al-Lubnān	Lebanon
Lux.	Luxembourg	Luxembourg
Ma., U.S.	Massachusetts	Massachusetts
Macau	Macau	Macau
Madag.	Madagasikara / Madagascar	Madagascar
Magreb	Al-Magreb	Morocco
Magy.	Magyarország	Hungary
Malaŵi	Malaŵi	Malawi
Malay.	Malaysia	Malaysia
Mald.	Maldives	Maldives
Mali	Mali	Mali
Malta	Malta	Malta
Mart.	Martinique	Martinique
Maur.	Mauritanie / Mūrītāniyā	Mauritania
Maus.	Mauritius	Mauritius
Mayotte	Mayotte	Mayotte
Mb., Can.	Manitoba	Manitoba
Md., U.S.	Maryland	Maryland
Me., U.S.	Maine	Maine
Medit. S.	—	Mediterranean Sea
Méx.	México	Mexico
Mi., U.S.	Michigan	Michigan
Mid. Is.	Midway Islands	Midway Islands
Miṣr	Miṣr	Egypt
Mn., U.S.	Minnesota	Minnesota
Mo., U.S.	Missouri	Missouri
Moç.	Moçambique	Mozambique
Monaco	Monaco	Monaco
Mong.	Mongol Ard Uls	Mongolia
Monts.	Montserrat	Montserrat
Ms., U.S.	Mississippi	Mississippi
Mt., U.S.	Montana	Montana
Mya.	Myanmā	Burma
N.A.		North America
Namibia	Namibia	Namibia
Nauru	Nauru / Naoero	Nauru
N.B., Can.	New Brunswick / Nouveau-Brunswick	New Brunswick
N.C., U.S.	North Carolina	North Carolina
N. Cal.	Nouvelle-Calédonie	New Caledonia
N.D., U.S.	North Dakota	North Dakota
Ne., U.S.	Nebraska	Nebraska
Ned.	Nederland	Netherlands
Ned. Ant.	Nederlandse Antillen	Netherlands Antilles
Nepāl	Nepāl	Nepal
Nf., Can.	Newfoundland / Terre-Neuve	Newfoundland
N.H., U.S.	New Hampshire	New Hampshire
Nic.	Nicaragua	Nicaragua
Nig.	Nigeria	Nigeria
Niger	Niger	Niger
Nihon	Nihon	Japan
N. Ire., U.K.	Northern Ireland	Northern Ireland
Niue	Niue	Niue
N.J., U.S.	New Jersey	New Jersey
N.M., U.S.	New Mexico	New Mexico
Nor.	Norge	Norway
Norf. I.	Norfolk Island	Norfolk Island
N.S., Can.	Nova Scotia / Nouvelle-Écosse	Nova Scotia
N.T., Can.	Northwest Territories / Territoires du Nord-Ouest	Northwest Territories
Nv., U.S.	Nevada	Nevada
N.Y., U.S.	New York	New York
N.Z.	New Zealand	New Zealand
Oc.	—	Oceania
Oh., U.S.	Ohio	Ohio
Ok., U.S.	Oklahoma	Oklahoma
On., Can.	Ontario	Ontario
Or., U.S.	Oregon	Oregon
Öst.	Österreich	Austria
Pa., U.S.	Pennsylvania	Pennsylvania
Pac. O.	—	Pacific Ocean
Pāk.	Pākistān	Pakistan
Pan.	Panamá	Panama
Pap. N. Gui.	Papua New Guinea	Papua New Guinea
Para.	Paraguay	Paraguay
P.E., Can.	Prince Edward Island / Île-du Prince-Édouard	Prince Edward Island
Perú	Perú	Peru
Pil.	Pilipinas	Philippines
Pit.	Pitcairn	Pitcairn
Pol.	Polska	Poland
Poly. fr.	Polynésie française	French Polynesia
Port.	Portugal	Portugal
P.Q., Can.	Québec	Quebec
P.R.	Puerto Rico	Puerto Rico
P.S.N.Á.	Plazas de Soberanía en el Norte de África	Spanish North Africa
Qaṭar	Qaṭar	Qatar
Rep. Dom.	República Dominicana	Dominican Republic
Réu.	Réunion	Reunion
R.I., U.S.	Rhode Island	Rhode Island
Rom.	România	Romania
Rw.	Rwanda	Rwanda
S.A.	—	South America
S. Afr.	South Africa / Suid-Afrika	South Africa
S.C., U.S.	South Carolina	South Carolina
S. Ch. S.	—	South China Sea
Schw.	Schweiz / Suisse / Svizzera	Switzerland
Scot., U.K.	Scotland	Scotland
S.D., U.S.	South Dakota	South Dakota
Sén.	Sénégal	Senegal
Sey.	Seychelles	Seychelles
Shq.	Shqīpëri	Albania
Sing.	Singapore	Singapore
Sk., Can.	Saskatchewan	Saskatchewan
S.L.	Sierra Leone	Sierra Leone
S. Lan.	Sri Lanka	Sri Lanka
S. Mar.	San Marino	San Marino
Sol. Is.	Solomon Islands	Solomon Islands
Som.	Somaliya	Somalia
S.S.S.R.	Sojuz Sovetskich Socialističeskich Respublik	Union of Soviet Socialist Republics
St. C.-N.	St. Christopher-Nevis	St.Christopher-Nevis
St. Hel.	St. Helena	St. Helena
St. Luc.	St. Lucia	St. Lucia
S. Tom./P.	São Tomé e Príncipe	Sao Tome and Principe
St. P./M.	Saint-Pierre-et-Miquelon	St. Pierre and Miquelon
St. Vin.	St. Vincent and the Grenadines	St. Vincent and the Grenadines
Sūd.	As-Sūdān	Sudan
Suomi	Suomi / Finland	Finland
Sur.	Suriname	Suriname
Sūrīy.	As-Sūrīyah	Syria
Sve.	Sverige	Sweden
Swaz.	Swaziland	Swaziland
T.a.a.f.	Terres australes et antarctiques françaises	French Southern and Antarctic Territories
Taehan	Taehan-min'guk	South Korea
T'aiwan	T'aiwan	Taiwan
Tan.	Tanzania	Tanzania
Tchad	Tchad	Chad
T./C. Is.	Turks and Caicos Islands	Turks and Caicos Islands
Thai	Prathet Thai	Thailand
Tn., U.S.	Tennessee	Tennessee
Togo	Togo	Togo
Tok.	Tokelau	Tokelau
Tonga	Tonga	Tonga
Transkei	Transkei	Transkei
Trin.	Trinidad and Tobago	Trinidad and Tobago
T.T.P.I.	Trust Territory of the Pacific Islands	TrustTerritory of the Pacific Islands
Tun.	Tunisie / Tunis	Tunisia
Tür.	Türkiye	Turkey

Introduction to the Index

List of Abbreviations

Tuvalu	Tuvalu	Tuvalu
Tx., U.S.	Texas	Texas
Ug.	Uganda	Uganda
U.K.	United Kingdom	United Kingdom
'Umān	'Umān	Oman
Ur.	Uruguay	Uruguay
Urd.	Al-Urdunn	Jordan
U.S.	United States	United States
Ut., U.S.	Utah	Utah
Va., U.S.	Virginia	Virginia
Vanuatu	Vanuatu	Vanuatu
Vat.	Città del Vaticano	Vatican City
Ven.	Venezuela	Venezuela
Venda	Venda	Venda
Viet.	Viet Nam	Vietnam
Vir. Is., U.S.	Virgin Islands (U.S.)	Virgin Islands (U.S.)
Vt., U.S.	Vermont	Vermont
Wa., U.S.	Washington	Washington
Wake I.	Wake Island	Wake Island
Wales, U.K.	Wales	Wales
Wal./F.	Wallis et Futuna	Wallis and Futuna
Wi., U.S.	Wisconsin	Wisconsin
W. Sah.	—	Western Sahara
W. Sam.	Western Samoa / Samoa i Sisifo	Western Samoa
W.V., U.S.	West Virginia	West Virginia
Wy., U.S.	Wyoming	Wyoming
Yaman	Al-Yaman	Yemen
Yis.	Yisra'el / Isrā'īl	Israel
Yk., Can.	Yukon Territory	Yukon Territory
Zaïre	Zaïre	Zaire
Zam.	Zambia	Zambia
Zhg.	Zhongguo	China
Zimb.	Zimbabwe	Zimbabwe

Key to Symbols

∧ **Mountain**
∧1 Volcano
∧2 Hill

⋏ **Mountains**
⋏1 Plateau
⋏2 Hills

× **Pass**

∨ **Valley, Canyon**

= **Plain**
=1 Basin
=2 Delta

› **Cape**
›1 Peninsula
›2 Spit, Sand Bar

I **Island**
I1 Atoll
I2 Rock

II **Islands**
II1 Rocks

± **Other Topographic Features**
±1 Continent
±2 Coast, Beach
±3 Isthmus
±4 Cliff
±5 Cave, Caves
±6 Crater
±7 Depression
±8 Dunes
±9 Lava Flow

≏ **River**
≏1 River Channel

≡ **Canal**
≡1 Aqueduct

∟ **Waterfall, Rapids**

ų **Strait**

c **Bay, Gulf**
c1 Estuary
c2 Fjord
c3 Bight

⊜ **Lake, Lakes**
⊜1 Reservoir

⁝ **Swamp**

⩍ **Ice Features, Glacier**

∓ **Other Hydrographic Features**
∓1 Ocean
∓2 Sea
∓3 Anchorage
∓4 Oasis, Well, Spring

+ **Submarine Features**
+1 Depression
+2 Reef, Shoal
+3 Mountain, Mountains
+4 Slope, Shelf

□ **Political Unit**
□1 Independent Nation
□2 Dependency
□3 State, Canton, Republic
□4 Province, Region, Oblast
□5 Department, District, Prefecture
□6 County
□7 City, Municipality
□8 Miscellaneous
□9 Historical

ψ **Cultural Institution**
ψ1 Religious Institution
ψ2 Educational Institution
ψ3 Scientific, Industrial Facility

⊥ **Historical Site**

♦ **Recreational Site**

⊠ **Airport**

▪ **Military Installation**

✦ **Miscellaneous**
✦1 Region
✦2 Desert
✦3 Forest, Moor
✦4 Reserve, Reservation
✦5 Transportation
✦6 Dam
✦7 Mine, Quarry
✦8 Neighborhood

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Omatako ≃	eE	130
Omboué	bA	128
Omdraaisvlei	hF	130
Omdurman →Umm Durmān	eG	126
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Omegna	hC	100
Omemee	fG	148
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Ometepec	iJ	166
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Omineca ≃	bJ	140
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Omo ≃	gH	126
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Omro	fG	148
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Onamia	eB	148
Onancock	bK	150
Onarga	jG	148
Onawa	lK	156
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Onda	fK	86
Ondangwa	aC	130
Onderdijk	cG	82
Ondjiva	eC	128
Ondo	gG	124
Öndörchaan	bI	100
Oneco	iD	150
Onega	eE	92
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Oneida, Tn., U.S.	cB	150
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Ongjin	fM	102
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Onoda	nF	106
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Oosthuizen	cG	82
Oostmahorn	bI	82
Oost-Vlaanderen □⁴	gD	82
Oostvleteren	gB	82
Oost-Vlieland	bG	82
Ootacamund	gD	114
Ootsa Lake ⊜	dH	140
Opala	bD	128
Opasquia	eU	142
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Opava	fQ	80
Opava ≃	eQ	80
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Opočka	eK	96
Opoczno	dT	80
Opole (Oppeln)	eQ	80
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Oporto →Porto	dC	86
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Oppdal	jK	76
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Orange, Ma., U.S.	eN	146
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Oranjemund	gC	130
Oranjerivier	gE	130
Oranjestad	kI	170
Or 'Aqiva	cC	120
Orăștie	eG	90
Oravais (Oravainen)	jR	76
Orbe	eF	83
Orbetello	gF	88
Orbisonia	gI	146
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Ore City	jB	152
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Oregon □³	cB	136
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Orenburg	gI	92
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Oriskany	dK	146
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Orivesi	kS	76
Oriximiná	dG	174
Orizaba	hK	166
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Orkney Islands II	bJ	78
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Orléanais □⁹	eH	84
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Orléans, Fr.	eH	84
Orleans, Ca., U.S.	cB	162
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Orleans, Ma., U.S.	fQ	146
Orleans, Ne., U.S.	kH	156
Orleans, Vt., U.S.	cN	146
Orlová	fR	80
Ormāra	dG	112
Ormoc	cG	108
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Ornans	eM	84
Orne □⁵	dG	84
Orne ≃	dF	84
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Orocué	cD	174
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Oroszlány	hR	80
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Oroville, Lake ⊜¹	eD	162
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Orsk	gI	92
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Orthez	iF	84
Orthon ≃	fE	174
Orting	cC	160
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Osceola, Ne., U.S.	jJ	156
Osceola, Wi., U.S.	eC	148
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Oschatz	dM	80
Oschersleben	cK	80
Oscoda	fL	148
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Oshkosh, Wi., U.S.	fG	148
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Osijek	dB	90
Osimo	fH	88
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Oskaloosa, Ks., U.S.	lL	156
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[illegible]	[illegible]	[illegible]
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Östersund	[illegible]	76
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Østfold □⁶	[illegible]	76
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[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]
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Rocky Mountain National Park ♦	kB	156
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Rodez	hI	84
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Rodi Garganico	hJ	88
Roding	fL	80
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Roermond	fI	82
Roeselare (Roulers)	gC	82
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Rogačevo	eT	96
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Rogaguado, Laguna ⊜	fE	174
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Rogliano	jP	84
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Rosamorada	fG	166
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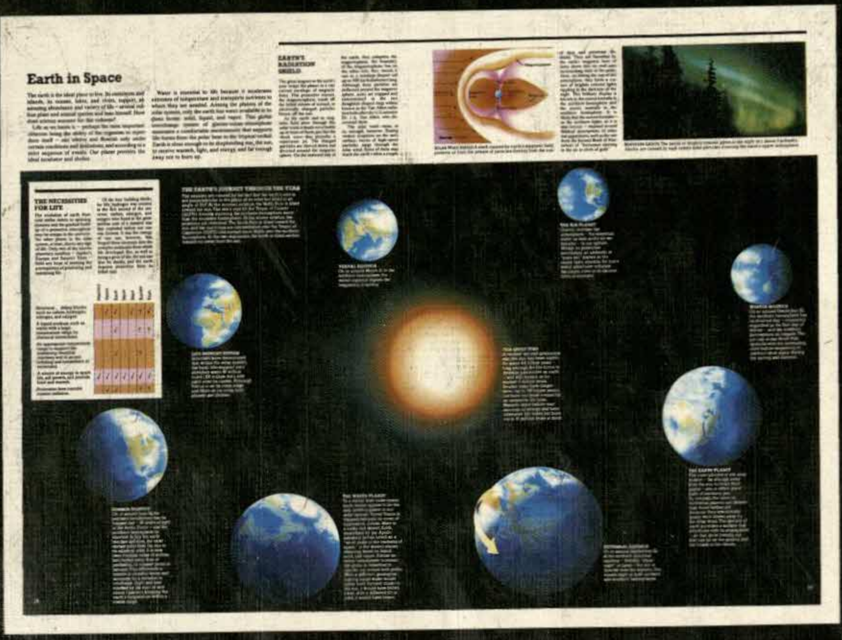

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